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ACCU-CHEK® Mobile

BLOOD GLUCOSE MONITORING SYSTEM

Reference Manual

Roche

Explanation of symbols

On the packaging, on the type plate of the meter and on the finger pricker, you may encounter the symbols shown below. They have the following meanings:

Consult the instructions for use

Caution (refer to accompanying documents)! Please refer to safety related notes in the instructions for use accompanying this instrument.

Store at

Use by / Expiry date

For single use only

Sterilized using irradiation

Manufacturer

Catalogue number

Lot number

For in vitro diagnostic use

Blood glucose meter: This product fulfils the requirements of Directives 98/79/EC on in vitro diagnostic medical devices and 1999/5/EC on radio and telecommunications terminal equipment (R&TTE).

Finger pricker and lancet drum: These products fulfil the requirements of Directive 93/42/EEC on medical devices.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

This device complies with the Japanese Radio Law 100.

The explanation of any other symbols can be found in the instructions for use/inserts accompanying components within the packaging.

Last update: 2009-01

Intended use

Accu-Chek Mobile blood glucose meter

Meter for quantitative determination of blood glucose values in fresh capillary blood using Accu-Chek Mobile test cassettes.

Suitable for self-testing only.

The meter may only be used for blood glucose testing by one person.
There is a risk of infections being transmitted if the meter is used by other people, or if healthcare professionals use the same meter for testing blood glucose in more than one person. This meter is therefore not suitable for professional use in healthcare facilities or institutions.

Accu-Chek FastClix Mobile finger pricker

Finger pricker with adjustable penetration depth setting for obtaining capillary blood from a fingertip with Accu-Chek FastClix lancet drums and, when a special AST cap is used, also from alternate sites such as the ball of the thumb.

The finger pricker is intended for personal use only!
It may only be used by one person for obtaining blood. There is a risk of infections being transmitted if the finger pricker is used by other people, or if healthcare professionals use this finger pricker to obtain blood from more than one person. This finger pricker is therefore not suitable for professional use in healthcare facilities or institutions.

About this Reference Manual

Please read this Reference Manual carefully and completely before testing blood glucose for the first time. If you have any questions, please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland), see Chapter 21.

This Reference Manual helps you get to know your meter and finger pricker step by step. It provides you with all the information you need to operate and care for your meter and finger pricker and to deal with any errors that might occur. Remember that, in order to keep your meter and finger pricker in good working condition, you need to follow the correct operating procedures and also observe certain other instructions. The meter and finger pricker are precision instruments and improper handling can impair their operation.

This Reference Manual features three symbols to draw your attention to important information. Please read these notes with special care.

This symbol indicates **a possible risk of injury or of damage to your own health or to the health of others**.

This symbol draws attention to actions that could result in **damage to the meter, the test cassette or the finger pricker.**

This symbol draws your attention to important information.

All instructions describing specific operations are printed on a coloured background as shown in the following example:

1 Place your finger on the corrugated area on the tip cover and push it in the direction of the arrow as far as it will go.

Please note:
All dates, times or results displayed in this Reference Manual are intended only as examples. They display results in mmol/l (e.g. 5.8 mmol/l), dates in the day month format (e.g. 26 Feb) and times in the 12-hour time format (e.g. 06:30pm). Others can (and will) be displayed on your meter's display. Your meter can, for example, display the time or date in a different format (depending on the setting you have chosen).

We recommend that you start by getting to know all of the features of your meter and finger pricker (see Chapter 1.1 and 1.2). Try out all the steps described in this Reference Manual, and also practice using the meter and finger pricker.

Contents

1 Getting to know your meter and finger pricker 13

1.1 Overview of the meter 14

1.2 Overview of the finger pricker 17

1.3 The blood glucose test in brief 18

1.4 The main features at a glance 20

1.5 Description of menus and buttons 23

Elements of the menus 24

button (On/Off button / Enter button) 26

button (down) 28

button (up) 29

1.6 Turning on the meter 30

1.7 Turning off the meter 32

1.8 Opening menus 34

1.9 Entering information 37

Changing numbers 37

Activating or deactivating functions 38

2 Initial steps before testing 39

2.1 Checking the contents 39

2.2 Checking the blood glucose unit 40

2.3 Inserting the first test cassette 41
Validity of the test cassette 46
2.4 Removing the protective film from the display 48
2.5 Removing the protective strip from the batteries 48
2.6 Setting the language 49

3 Testing blood glucose **54**

3.1 Preparing the finger pricker 55
Inserting a lancet drum 57
Setting the penetration depth 59
Loading a new lancet 60
Replacing a used lancet drum 61
Undocking and docking the finger pricker 62
3.2 Performing a blood glucose test 64
Starting a blood glucose test by opening the tip cover 65
Starting a blood glucose test via the Main menu 68
Obtaining a blood drop 70
Applying the blood drop to the test area 73
Turning off the meter 75
Symbols which are displayed together with the result 77
Flagging results 78

3.3 Evaluating results....84
Measuring range....84
Implausible results – possible sources of error....85

4 Making settings 86

4.1 Settings overview....86
4.2 Opening the *Settings* menu....89
4.3 Setting the time and date, selecting the time format....91
Setting the time....92
Setting the date....95
Selecting the time format....98
4.4 Setting tones....100
Turning the beep tones, reminders and acoustic mode on and off....102
4.5 Setting reminders....104
Setting a new reminder....106
Editing an existing reminder (turn on/off, change, delete)....109
Setting a one-time reminder in 1 hour, 2 hours or 3 hours....115
Deleting a one-time reminder....117
4.6 Setting a target range....119
Setting a target range....120
Editing an existing target range (turn on/off, change)....122

4.7 Setting the volume 126
4.8 Setting the brightness 128
4.9 Setting the language 130
Correcting a wrongly set language 132

5 Using the meter as a diary 133

5.1 Viewing saved results 134
Via the *Memory* menu 136
Via the ▼ button (down) 137
Viewing all saved results 138
5.2 Viewing averages 139
5.3 Transferring results 144
Starting the transfer using the ▼ and ▲ buttons 147
Starting the transfer via the *Memory* menu 148
Transferring results for further analysis 149
Transferring results as a table 151
If the transfer is unsuccessful 155
5.4 Setting the display format for viewing saved results 156

6 Acoustic mode 159

6.1 Beep tone when turning on 161
6.2 Beep tones during a test 161

6.3 Announcement of the result after a test....162
6.4 Announcements of warnings and error messages....164

7 Checking the meter 165

7.1 Preparing for a control test....166
7.2 Performing a control test....167
Control test not OK – possible sources of error....176

8 *Tools* menu 178

9 Performing a display check 179

10 Viewing the validity of the test cassette 181

11 Cleaning the meter and finger pricker 182

11.1 Cleaning the meter....182
The outside....182
The inside....183
11.2 Cleaning the finger pricker....192

12 Replacing the test cassette 193

12.1 Preparing cassette replacement....194
12.2 Replacing the cassette....195

13 Viewing the number of available tests **201**

14 Changing the batteries **202**

15 Testing and storage conditions **207**

15.1 Temperature 207

15.2 Humidity 208

15.3 Light conditions 209

15.4 Local sources of interference 209

16 Symbols, messages, problems and error messages **210**

16.1 Symbols 210

16.2 Messages 211

16.3 Problems 217

16.4 Error messages 219

17 Disposing of the meter **225**

18 Technical data **227**

19 System components **230**

20 Patents **231**

21 Accu-Chek Customer Careline **232**

21.1 Advice and troubleshooting 232

21.2 Addresses 232

22 Alphabetical index **233**

23 Menu overview **240**

1 Getting to know your meter and finger pricker

This chapter introduces you to:

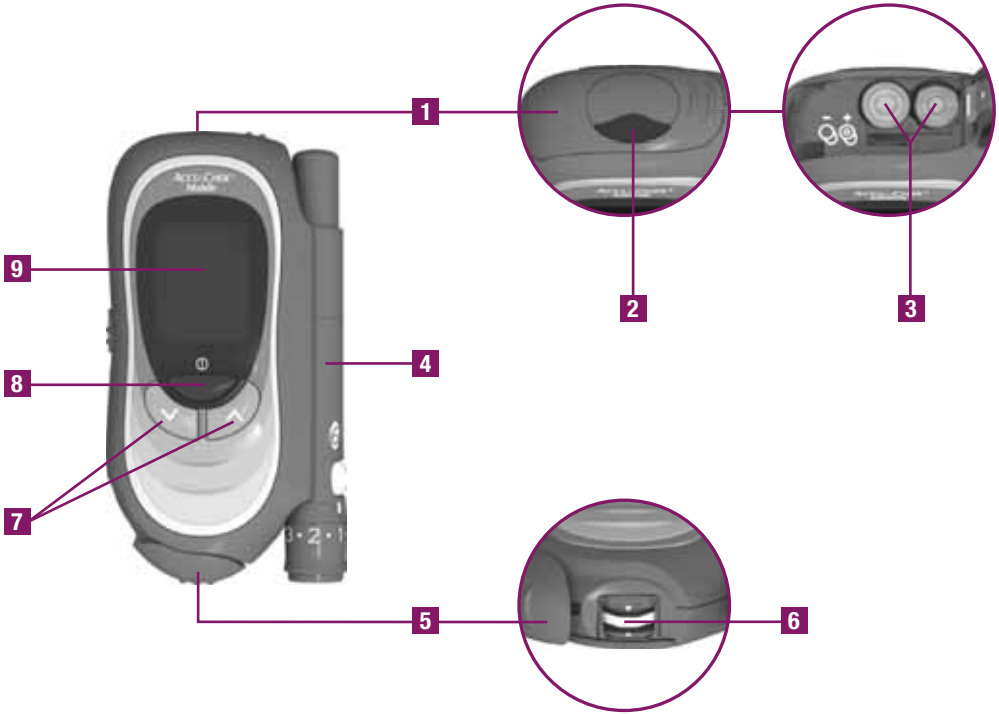
- the meter
- the finger pricker
- the blood glucose test
- the main features of the meter and finger pricker.

It then describes:

- what the menus look like
- how the meter is turned on and off
- how menus are opened
- how information is entered.

You can only perform a blood glucose test or make settings in the meter if you have performed the initial steps before testing (see Chapter 2).

1.1 Overview of the meter



1. Battery compartment cover (right: from above; far right: open)
2. Infrared window (integrated interface for transferring results to a computer, for example)
3. Batteries [1.5 V, type AAA, alkaline-manganese or high energy batteries (2 batteries required)]
4. Finger pricker (docked)
5. Tip cover (bottom right: open)
6. Test area (at the tip of the cassette ready for a test) – this is where you apply the blood
7. Down/Up buttons
8. On/Off and Enter button
9. Display

10 Release button for undocking the finger pricker

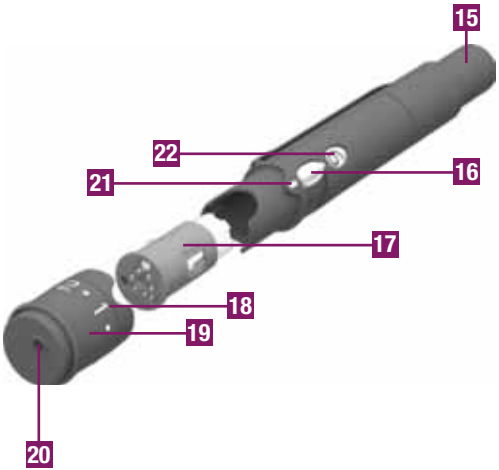
11 Type plate

12 Release button for opening the cassette compartment cover

13 Cassette compartment cover (bottom: open)

14 Test cassette (in place in the meter)

1.2 Overview of the finger pricker



15 Multifunction button (priming and lancing)

16 Lancet changer – lever for rotating the lancet drum and loading a new lancet

17 Lancet drum containing 6 lancets

18 Numbers indicating penetration depth settings

19 Rotatable cap (rotating the cap on the device sets the penetration depth)

20 Pin-hole opening for lancet

21 Penetration depth indicator

22 Window showing number of available lancets

1.3 The blood glucose test in brief

1 Open tip cover

2 Prime finger pricker

3 Obtain blood

4 Apply blood

5 Read result

6 Close tip cover

1.4 The main features at a glance

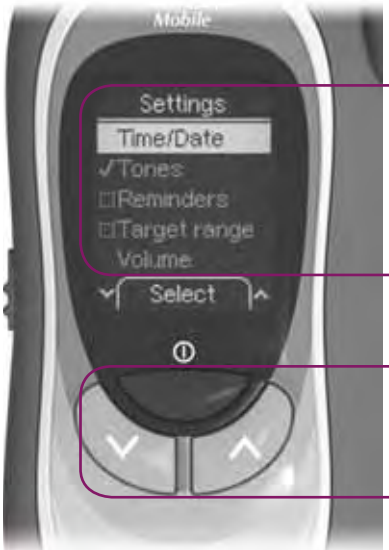
- **Test cassette instead of test strips**
  The test cassette contains a continuous tape on which there are 50 test areas. When a test is to be performed a test area is automatically advanced to the tip of the cassette.
- **Easy testing**
  For testing, you do not need to press a single button. You open the tip cover, apply blood to the test area, read the result and close the tip cover.
- **Docked finger pricker**
  You can obtain blood with the finger pricker still docked onto the meter. Or you can undock the finger pricker and then use it to obtain blood.
- **Finger pricker with lancet supply**
  A drum containing 6 sterile lancets is placed in the finger pricker. Pushing the lever on the finger pricker rotates the drum to the next lancet. This means that you can obtain blood with a new and sterile lancet 6 times before you have to replace the drum.
- **No coding**
  Each test cassette contains an RFID (**r**adio **f**requency **id**entification) chip. This automatically codes the meter when you insert a test cassette and informs the meter about the specific properties of the test areas in this test cassette.

- **Blood volume checking**
  The meter checks whether you have applied sufficient blood (approx. 0.3 µl = 0.3 thousandths of a millilitre) before starting to test.
- **Luminous display**
  All information on the display appears yellow on a black background. You can adjust the brightness to suit the ambient conditions and make it easier to read.
- **Text-supported operation**
  The meter takes you through all the operations step by step in the language you have selected. There are 15 languages to choose from. Some of the text is supported by symbols and graphics.
- **Menu-driven operation**
  The settings and functions of the meter are sorted by topic into different menus. You will find an overview of the menus at the end of the Reference Manual.
- **Reminders**
  You can set reminder times, e.g. to remind you to perform a test. At the set time a beep will sound and the reminder time will be displayed.
- **Target range for results**
  You can enter your personal target range for blood glucose values. The target range gives the blood glucose values which should be achieved if the treatment is optimal. If a result is above or below this range, a symbol on the display will draw your attention to this.

- **Flagging results**
  You can flag results with various symbols which indicate particular situations during the test.
- **Memory**
  The meter automatically saves up to 500 results with the time and date of the test and all other information that is important for the test.
- **Integrated data analysis**
  From the stored results, your meter can calculate averages for the last 7, 14 or 30 days.
- **Data transfer**
  The meter has an infrared window. This enables you to transfer stored results to a computer.

1.5 Description of menus and buttons

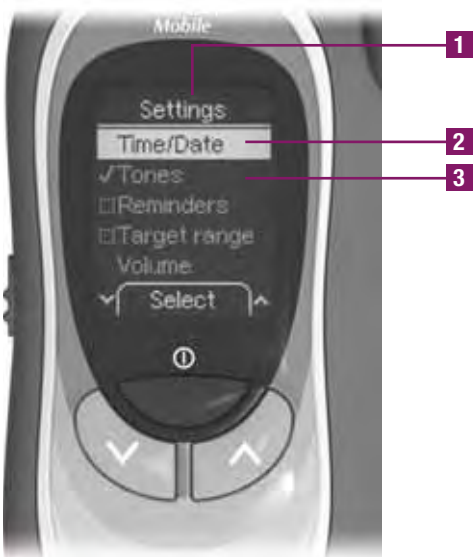
This chapter tells you how the menus are arranged, what the different symbols in them mean and how to use the buttons to navigate through the menus. You will find a complete overview of the menus at the end of the Reference Manual.



When the meter is on, the selected menu is displayed in the language you have set.

The three buttons below the display allow you to navigate through the menu.

Elements of the menus

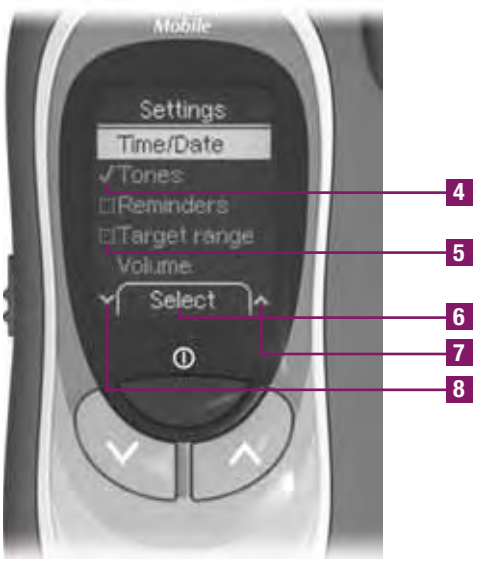


The following illustrations show the main elements that can appear in a menu.

1 Title of the display or menu (not in all displays).

2 Selected item, highlighted with a yellow bar. If you press the button, this item will be selected (command “Select” above the button). This will take you to a higher- or lower-level menu, for example, or open the display for entering a number.

3 Unselected item.



4 The symbol ✓ indicates that the function (here *Tones*) is activated.

5 The symbol ☐ indicates that the function (here *Target range*) is deactivated.

6 The command displayed here will be executed if you press the button. The particular command displayed depends on the current display (see description of the On/Off and Enter button).

7 The symbol ▲ means that there are further items above the first item visible on the display.

8 The symbol ▼ means that there are further items below the last item visible on the display.

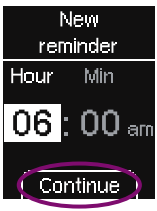
button (On/Off button / Enter button)

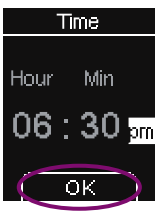
This button allows you

- to turn the meter on or off (**press and hold** the button, see Chapter 1.6 and 1.7); as On/Off button, this button is indicated in the Reference Manual by the symbol ⏻,

or

- to execute the command displayed above the button (**press and release** the button); as Enter button to execute the command displayed, the button is indicated by the symbol .





There are various commands, for example (see illustrations on left):

- *Select* selects the highlighted item. This will take you to a higher- or lower-level menu, for example, or open the display for entering a number.
- *Continue* takes you from hours to minutes.
- *OK* confirms the displayed time.
- *Off* turns the beep tones off.

button (down)

This button allows you to

- navigate down in a menu or list

or

- make numbers smaller.

The button (down) is indicated by the symbol ☑ in the Reference Manual.

button (up)

This button allows you to

- navigate up in a menu or list

or

- make numbers bigger.

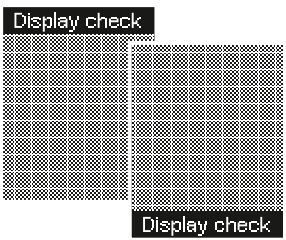
The button (up) is indicated by the symbol ^ in the Reference Manual.

1.6 Turning on the meter

1 With the meter off, press and hold the On/Off button ⏻ until the meter turns on (longer than 2 seconds).

In the remainder of the Reference Manual, this instruction will appear in the following abbreviated form:

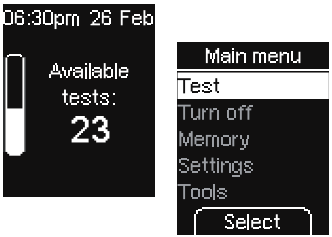
1 Turn on the meter with ⏻.



The meter first runs a display check in which a black and yellow checkerboard pattern of small illuminated dots is displayed.

2 Check that there are no irregularities in the checkerboard pattern.

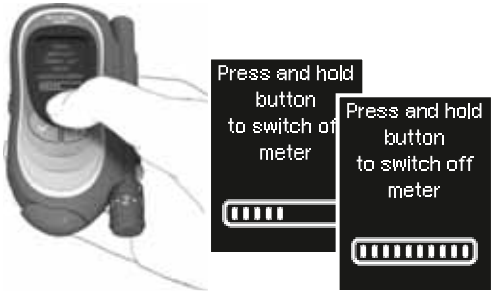
Some examples of irregularities in the checkerboard pattern are shown in Chapter 9.



The meter automatically exits the display check after about 2 seconds.

After the display check, the meter first displays the number of tests still available on the test cassette and then opens the Main menu.

1.7 Turning off the meter



There are 2 different ways of turning off the meter: using the On/Off button or via the Main menu.

Using the On/Off button

Press and hold the On/Off button until the bar on the display is filled (at least 2 seconds).

In the remainder of the Reference Manual, this instruction will appear in the following abbreviated form:

Turn off the meter with .

After this, the number of available tests is displayed and the meter turns off.

You can turn the meter off at any time using the On/Off button. If you release the On/Off button before the bar is full, the meter returns to the previous display.

Via the Main menu

1 Open the Main menu.

2 Use the ▼ or ▲ button to go to the item *Turn off*.

3 Press the button *(Select)*.

The meter displays the number of available tests and then turns off.

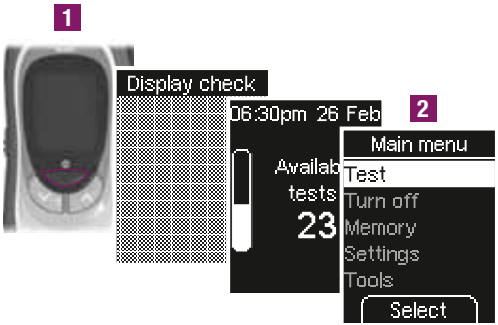
In the remainder of the Reference Manual, this way of turning off the meter will appear in the following abbreviated form:

1 Turn off the meter via *Turn off.*

1.8 Opening menus

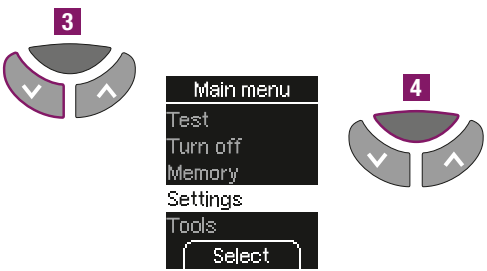
The procedure for opening a menu is always the same.

Example: Opening the *Date* menu



1 Turn on the meter with ⏻.

2 Wait until the Main menu is displayed.



3 Press the ▽ button three times until the item *Settings* is highlighted by the yellow bar.

4 Press the ⌒ button *(Select)* to open the *Settings* menu.

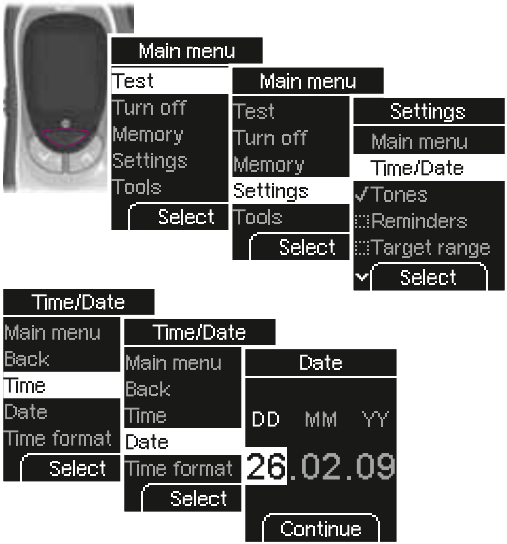
The *Time/Date* menu is highlighted.

5 Press the button *(Select)* to open the *Time/Date* menu.

6 Use the or button to select the item *Date.*

7 Press the button *(Select)* to set the date.

The *Date* menu is now open.



In the Reference Manual, the steps for opening the *Date* menu are summarized as follows:

1 Turn on the meter with ⏻,
- → wait for the *Main menu*,
- → use ▼ ▲ to select *Settings*,
- → press OK to open *Settings*,
- → use ▼ ▲ to select *Time/Date*,
- → press OK to open *Time/Date*,
- → use ▼ ▲ to select *Date*,
- → press OK to open *Date*.

The procedure for opening other menus is described in the same way.

1.9 Entering information

Changing numbers

Numbers highlighted by a yellow background can be changed.

Press the ▼ button to make a number smaller.

If you press the button once, the number decreases by 1. If you hold the button down, the number continues to decrease until you release the button.

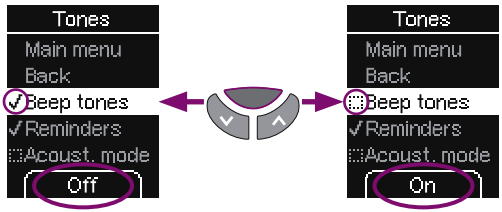
Press the ▲ button to make a number bigger.

If you press the button once, the number increases by 1. If you hold the button down, the number continues to increase until you release the button.

Activating or deactivating functions

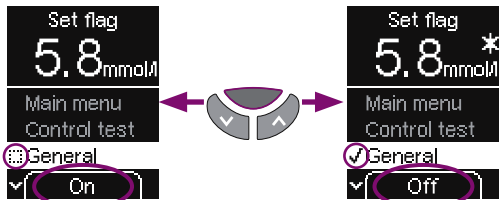
Some functions, e.g. the beep tones and flagging results, can only be activated or deactivated.

You can recognize these functions by the fact that there is either a tick ✓ or a checkbox ⬚ in front of them and the command above the button is *Off* or *On* (if there is a different command this means that the function can also be modified).



A tick ✓ means that the function is activated. The command for the button is *Off* to allow you to deactivate the function.

Press the button *(Off)* to deactivate the activated function.



A checkbox ⬚ means that the function is deactivated. The command for the button is *On* to allow you to activate the function.

Press the button *(On)* to activate a deactivated function.

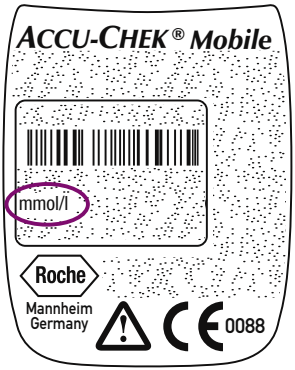
2 Initial steps before testing

2.1 Checking the contents

Check that the contents of the package are complete.

The package contents are listed on the box. If anything is missing, please contact the Accu-Chek Customer Careline. You will find the address at the end of this Reference Manual.

2.2 Checking the blood glucose unit



Blood glucose results can be displayed in two different units of measurement (mmol/l and mg/dl). Consequently, two different versions of the same meter are sold. Check that your meter displays the unit of measurement you are accustomed to. You can find the unit of measurement that your meter displays on the type plate on the back of your meter. If you do not know which is the right unit of measurement for you, ask your doctor.

⚠ The unit of measurement that your meter displays cannot be changed. If the wrong unit is printed on the type plate, please call the Accu-Chek Customer Careline. Using the wrong unit of measurement can cause you to misinterpret the results.

2.3 Inserting the first test cassette

If your meter is brand new and unused, it does not contain a test cassette.

⚠ Please read the test cassette package insert. It contains important information on storage and possible causes of incorrect results, for example.

⚠ If the foil-sealed packaging is damaged, you must not use the test cassette. Otherwise, there is a risk that you might obtain incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce serious adverse health effects.

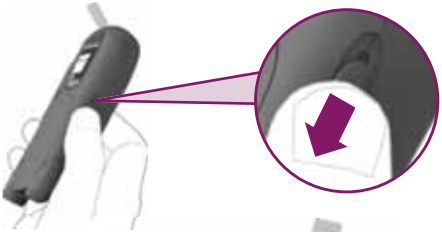
⚠ Only remove the test cassette from its packaging when you want to insert it into the meter. The packaging protects the test cassette against damage and moisture.

ⓘ Insert the very first test cassette in the meter before you remove the protective strip from the batteries and start using the meter.

ⓘ A table is printed on the test cassette box which shows the permitted results for control tests (checking the meter with glucose control solution). The meter automatically checks whether the result of a control test is correct. If you wish to check the result yourself as well, you can do this with this table. Keep the test cassette box in case you need it for this purpose. Please note that the table is only valid for the test cassette that comes in the same box. Test cassettes from other boxes have other tables.

1 Place your finger on the corrugated area on the tip cover and push it in the direction of the arrow as far as it will go. You must feel the tip cover click into place.

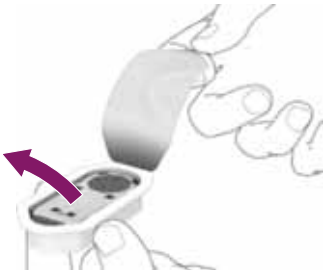
2 Turn the meter over.



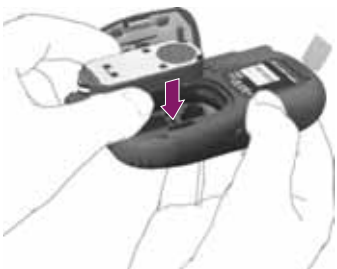
3 Push the release button for the cassette compartment cover in the direction of the arrow. The cover springs open.

4 Open the cassette compartment cover all the way. You have to overcome a resistance just before it is fully opened.

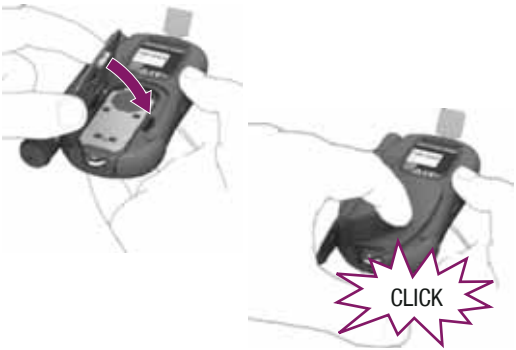
The cassette compartment cover is fully opened when it is at an angle of slightly more than ninety degrees – as shown in the illustration.



5 Remove the cassette from the packaging.



6 Insert the cassette in the meter with the silver side facing upwards.



7 Close the cassette compartment cover and press it closed. You must hear an audible CLICK.

8 Push the tip cover in the direction of the arrow as far as it will go. You must feel the tip cover click into place.

Validity of the test cassette

When a test cassette is in the meter, the meter checks regularly when the cassette was inserted and calculates the use-by period from this. Each test cassette must be used up within 3 months (use-by period). If you insert a partly used test cassette into the meter, the use-by period is calculated from the date when the cassette was placed in the meter for the first time. This date is stored in the cassette.

The meter also checks whether the expiry date of the cassette has been reached. The expiry date is shown on the test cassette box next to the symbol .

If either of the two dates – use-by period or expiry date – is exceeded, the validity of the cassette has expired. You cannot perform any more tests with this test cassette.

If you start a test and the validity of the cassette is about to expire shortly or has already expired, the meter will inform you of this.

The first notification appears 10 days before the validity of the cassette expires, the following appear 5, 2 and 1 day(s) before expiry.

Press the button *(Continue)* to start a test.

If the validity of the test cassette has expired, the message on the left appears.

Turn off the meter with and insert a new test cassette.

2.4 Removing the protective film from the display

The meter's display is protected by a protective film.

Peel this protective film off.

2.5 Removing the protective strip from the batteries

The meter is supplied with batteries inserted. The battery contacts are covered with a protective strip to prevent premature loss of battery power. This protective strip must be removed before you can start using the meter.

Pull the protective strip backwards out of the meter.

Instructions for changing the batteries are given in Chapter 14.

2.6 Setting the language

When you have inserted a test cassette and removed the protective film from the display and the protective strip from the batteries (see Chapter 2.3 to 2.5), you must set the language in which text will be displayed on the meter. The meter automatically prompts you to do this the first time you turn it on.

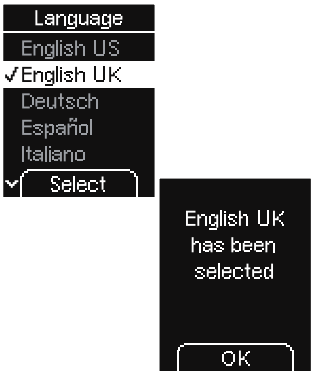
There are a total of 15 languages to choose from.

- English US
- English UK
- Deutsch
- Español
- Italiano
- Français
- Dansk
- Svenska
- にほんご
- Türkçe
- Português
- Ελληνικά
- Norsk
- Suomi
- Nederlands

1 With the meter off, press and hold the On/Off button until the meter turns on (longer than 2 seconds).

When you turn on the meter for the first time, the language selection menu is automatically displayed.

The default language is *English UK*. You can either select this language or replace it by a different one.



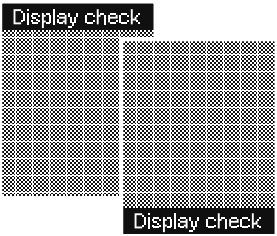
2 Press the ▼ or ▲ button repeatedly until the desired language is highlighted.

3 Then press the button below the display to select the highlighted language.

The meter will then display the language you just selected.

4 Confirm this information by pressing the button *(OK)*.

If you selected the wrong language by mistake you can change this setting later (see Chapter 4.9). However, until you do so, the menu will be displayed in the language you selected.



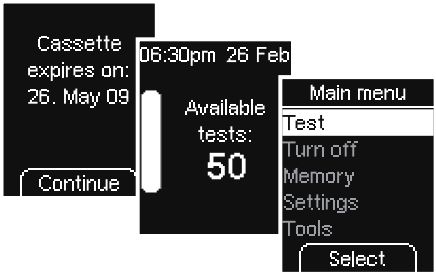
The meter then runs a display check in which a black and yellow checkerboard pattern of small illuminated dots is displayed.

5 Check whether there are any irregularities in the checkerboard pattern.

Some examples of irregularities in the checkerboard pattern are shown in Chapter 9.

If there are irregularities in the checkerboard pattern, results might not be displayed correctly. In this case, to change the meter please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

The meter automatically exits the display check after about 2 seconds.



It will then display when the cassette expires.

6 Press the button *(Continue)*.

The meter displays the number of available tests in the test cassette which can still be used for testing.

Then the Main menu is displayed.

Now you can choose what you want to do, e.g:

- perform a blood glucose test

  Press *(Select)*.

- turn off the meter

  Use ▼ ▲ to select *Turn off* → press .

- make settings

  Use ▼ ▲ to select *Settings* → press to open *Settings*.

3 Testing blood glucose

When you have inserted a test cassette, removed the protective film from the display and the protective strip from the batteries and set the language (see Chapter 2), you can perform blood glucose tests with the meter.

The time and date are already set in the meter. If these differ from the current time or date you can correct either of these (see Chapter 4).

If you want to use certain functions of the meter, e.g. set reminders to remind you to test, you can change the meter's settings before you start to test or at any other time (see Chapter 4).

To perform a blood glucose test, you only need:

- the meter with inserted test cassette
- the finger pricker with inserted lancet drum

3.1 Preparing the finger pricker

AST cap

You can use the finger pricker to obtain blood from a fingertip or from other (alternate) sites. You can choose one of 11 different penetration depth settings to suit your own skin type.

You can use the finger pricker either docked on to the meter or separately from the meter.

If you wish to obtain blood from alternate sites (such as palm, forearm, upper arm, calf or thigh), you must replace the normal black cap on the finger pricker with a special AST cap (AST stands for alternate site testing). If there is no AST cap in the pack, you can order one from your Accu-Chek Customer Careline.

Make sure you also read the instructions for use that come with the AST cap before using blood from alternate sites for a blood glucose test.

The finger pricker is intended for personal use only!
It may only be used by one person for obtaining blood. There is a risk of infections being transmitted if the finger pricker is used by other people, or if healthcare professionals use this finger pricker to obtain blood from more than one person. This finger pricker is therefore not suitable for professional use in healthcare facilities or institutions.

Wear and tear can lead to material failure. In extreme cases a lancet can protrude from the cap so that injury cannot be completely ruled out. You should therefore handle the finger pricker with particular care once a lancet drum has been inserted.

Only use the Accu-Chek FastClix Mobile finger pricker with Accu-Chek FastClix lancet drums. Using any other lancets or lancet drums may damage the finger pricker or impair its function.

A lancet drum that has been taken out of the finger pricker has a built-in safety feature that stops you from using it again. This rules out a potential infection risk.

A locking mechanism prevents the lancet drum being rotated further if there is a 1 in the window showing the number of available lancets. Do not force the lever beyond this locking mechanism as this will damage the finger pricker.

Inserting a lancet drum

new lancet drum used lancet drum

To use the finger pricker to obtain blood, you must first insert a lancet drum.

1 Take a new lancet drum.

You can tell that a lancet drum has been used because it has a red line visible on the white portion. You cannot insert a used lancet drum again.

2 Remove the cap from the finger pricker.

3 Insert the new lancet drum – white end first – into the finger pricker.

The lancet drum is properly inserted when it slots into position with an audible CLICK.

4 Place the cap back on again.

The cut-out section at the edge of the cap must fit over the correspondingly, shaped curvature with the penetration depth indicator (silver line). You must hear and feel the cap click into place. The window showing the number of available lancets shows 6, i.e. there are now 6 lancets available.

Setting the penetration depth

You can set the penetration depth of the lancet to 1 of 11 possible settings (0.5–5.5). The silver line (penetration depth indicator) on the finger pricker indicates the current penetration depth setting. The higher the number the deeper the penetration. The half settings for the penetration depth are indicated by a dot. The penetration depth 1.5 is set when the line points to the dot between 1 and 2.

If you have no experience of using this finger pricker, we recommend that you start with a low penetration depth setting such as 1.

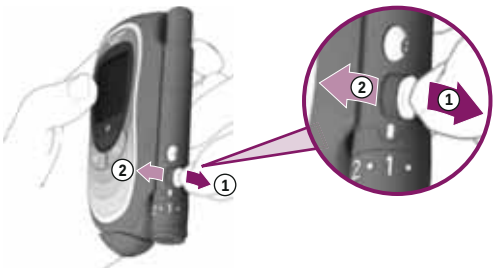
1 Rotate the cap of the finger pricker until the desired penetration depth is level with the indicator.

Do not lance your finger until you are told to do so in the further course of the Reference Manual.

Loading a new lancet

You do not need to load a new lancet if you just inserted a new lancet drum.

If you have already used the finger pricker to obtain blood, you will need a new lancet the next time you obtain blood. For this, the lancet drum must be rotated in the finger pricker.



Push the lever at the side of the finger pricker to the right as far as it will go (1) and then back to the left (2).

The lancet drum rotates a little further and the next lancet will be advanced to the correct position and is now ready for use.

The window on the side of the finger pricker now shows one less available lancet, e.g. 5 instead of previously 6. When you have loaded the sixth and last lancet, the window shows 1.

Replacing a used lancet drum

When you have used the sixth and last lancet, you need to replace the used lancet drum with a new one.

1 Remove the cap from the finger pricker.

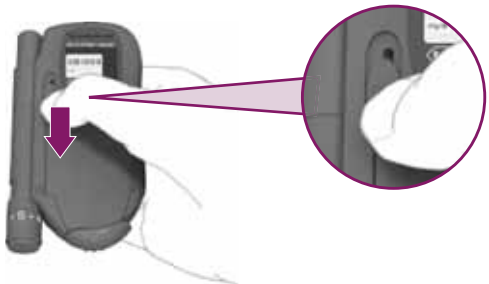
2 Grasp the lancet drum at the cut-outs on the finger pricker.

3 Pull the lancet drum out of the finger pricker.

Used lancet drums can be disposed of in household waste.

4 Insert a new lancet drum (see section “Inserting a lancet drum”).

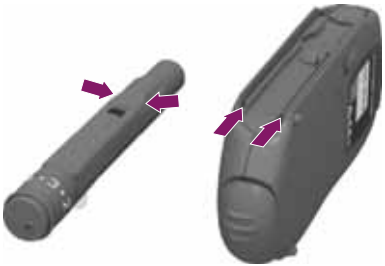
Undocking and docking the finger pricker



If you wish to use the finger pricker separately from the meter, detach it as follows:

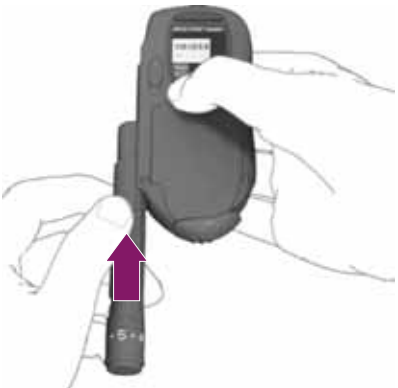
1 Push the release button for the finger pricker (on the back of the meter) in the direction of the arrow as far as it will go. Hold it in this position until you have undocked the finger pricker.

2 Withdraw the finger pricker by sliding it out in the direction of the arrow.



To dock the finger pricker on to the meter again, proceed as follows:

There are 2 guide tracks on the meter and the finger pricker, respectively. When docking the finger pricker, the tracks on the finger pricker must fit into the tracks in the recess at the side of the meter.



1. Position the finger pricker at the lower end of the recess with the multifunction button at the top and the writing “Accu-Chek FastClix Mobile” facing the meter.
2. Slide the finger pricker along the side of the meter in the direction of the arrow until it slots into place with an audible CLICK.

3.2 Performing a blood glucose test

When you have inserted a lancet drum into the finger pricker and set the penetration depth, you can now start to perform a blood glucose test.

There are two ways of starting a blood glucose test.

- You can open the tip cover (with the meter on or off).
- You can turn on the meter using the button and select *Test* in the Main menu.

After performing the test, you can flag the result if the test was performed under special conditions and you want to record this.

Before you start the test, wash your hands with warm water and soap and dry them well. This helps remove any residues from the skin, e.g. from food, drinks or skin cream, which can disturb the test. This also stimulates blood flow and reduces contamination of the puncture site.

At a particular time, the meter prompts you to apply blood. You then have about 2 minutes to obtain a blood drop and apply it to the test area. If you do not apply blood to the test area within this period, the meter turns off. The test area that had been made available will be lost as the meter will advance a new test area next time.

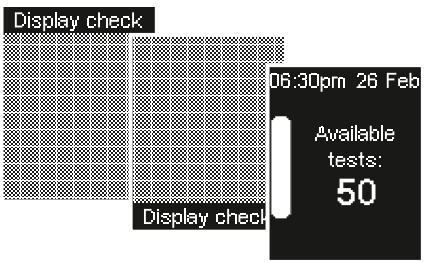
Starting a blood glucose test by opening the tip cover

1 Place your finger on the corrugated area on the tip cover and push it in the direction of the arrow as far as it will go.

After overcoming a slight resistance, the tip cover clicks into place.

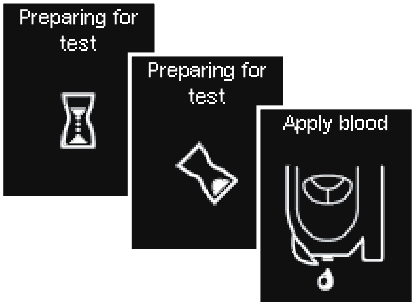
Be careful not to touch the tape when doing this as this could damage it.

If the meter was turned off, it now turns on.



A beep will sound (if *Beep tones* is turned on) and the display check will be displayed, followed by the number of available tests.

2 Check that there are no irregularities in the checkerboard pattern.



Then the meter will advance a test area to the tip of the cassette.

Be careful not to touch the tape when doing this as this could damage it.

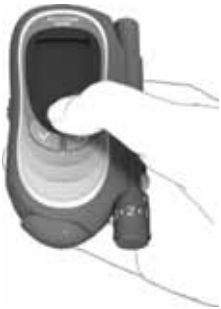
Shortly after the test area has been advanced to the tip of the cassette, the prompt *Apply blood* will appear and a beep will sound again (if *Beep tones* is turned on).

You can also open the tip cover if the meter is already turned on. In this case, the meter then switches to *Test*. It advances a test area to the tip of the cassette and then the prompt *Apply blood* appears.

There are the following exceptions:

- If you are in the *Settings* menu: In this case, when you open the tip cover you will be asked whether you really want to perform a test (see Chapter 16.2).
- If you had turned on the meter using the ▽ or △ button (see Chapter 5.1 and 13): In this case, the meter does **not** switch to *Test*. You must first turn off the meter. Then you can start the blood glucose test either by opening the tip cover or via the Main menu (see next page).

Starting a blood glucose test via the Main menu



1 Turn on the meter with ⏻,
→ wait for the *Main menu*.

If the meter is already on:

1 Switch from the currently displayed menu to the Main menu.

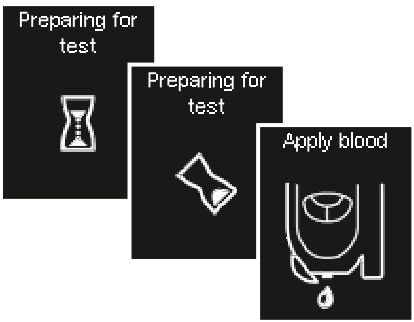
2 Use ▼ ▲ to select *Test*,
→ press ▬ to open *Test*.

The prompt *Open tip cover* appears on the display.

If you do not want to perform a test after all, press the ▬ button *(Cancel)*. In this case, no test area will be advanced and the number of available tests remains the same. The meter returns to the Main menu.

3 Place your finger on the corrugated area on the tip cover and push it in the direction of the arrow as far as it will go.

Be careful not to touch the tape when doing this as this could damage it.



When you have opened the tip cover, the meter advances a test area to the tip of the cassette.

Be careful not to touch the tape when doing this as this could damage it.

Shortly after the test area has been advanced to the tip of the cassette, the prompt *Apply blood* will appear and a beep will sound again (if *Beep tones* is turned on).

Obtaining a blood drop

Use a new lancet each time you obtain blood. This reduces the risk of infection and helps ensure virtually pain-free blood sampling.

● = Recommended sites for obtaining blood

In general, all the fingers are suitable for obtaining blood. Certain fingers can be unsuitable if, for example, a skin or fingernail infection is present. We recommend obtaining capillary blood from the side of a fingertip as this registers the least pain (see black areas in the illustration on the left).

The amount of blood that emerges at the puncture site depends on the penetration depth setting and the pressure used to hold the finger pricker against the skin.

- If you find when you perform the test that the amount of blood is insufficient, press the finger pricker more firmly against the skin next time. If you still obtain insufficient blood, also increase the penetration depth one setting at a time when you perform your next tests.
- If, on the other hand, you obtain too much blood, reduce the penetration depth next time.

To obtain blood with the finger pricker, you first need to prime it.

Do not prime the finger pricker until you are ready to obtain blood. Storing the finger pricker in this primed state can cause parts to become misshapen through tension, impairing its operation.

1 To prime the finger pricker, press the multifunction button down as far as it will go.

When you release the button one third will come out again. The finger pricker is now primed.

Do not press the multifunction button again until you actually want to obtain blood. As the finger pricker is now primed, this would trigger the lancet and could lead to accidental injury.

⚠ The cap must be on the finger pricker when you obtain blood. Without the cap, the lancet would penetrate too deeply and you would feel more discomfort than necessary.

2 Press the finger pricker **firmly** against the chosen puncture site.

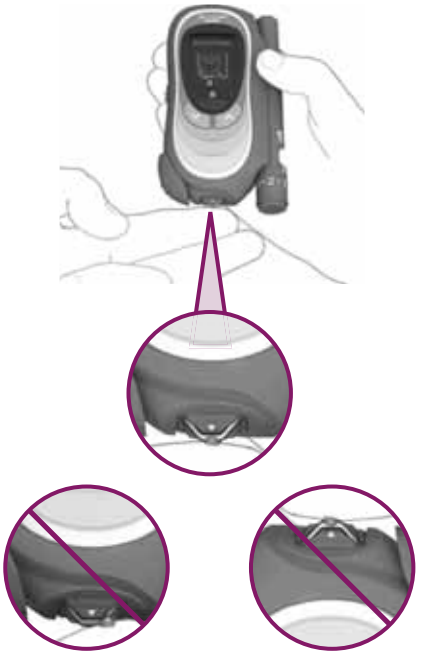
You will feel a slightly raised ring against your skin; this is the pin-hole through which the tip of the lancet emerges.

3 Press the multifunction button all the way down.

This triggers the lancet, which penetrates the skin to the penetration depth set.

4 If necessary, gently massage the finger in the direction of the fingertip to encourage a blood drop to form.

Applying the blood drop to the test area



Do not apply blood at the edge of the test area

Do not hold the meter with the test area pointing upwards

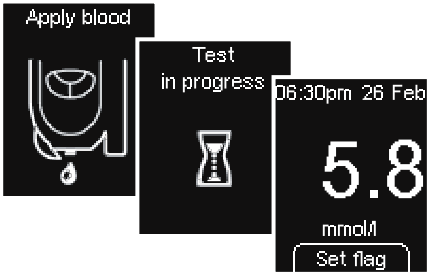
You can hold the meter in your hand or lay it down while you apply blood to the test area.

Do not hold the meter with the test area pointing upwards. If you hold the meter with the test area pointing upwards, blood could enter the meter and soil it.

When the prompt *Apply blood* is displayed:

1 As soon as the blood drop has formed, bring it towards the **centre** of the test area at the tip of the cassette.

Touch the tape **lightly** with your finger. The blood drop is drawn up by the test area.



2 Take your finger away from the test area as soon as *Test in progress* and the hourglass symbol appear on the display.

The test area has then drawn up enough blood and a beep sounds (if *Beep tones* is turned on). The hourglass symbol indicates that the test is in progress.

Testing is complete after approx. 5 seconds. The result appears on the display and the meter beeps (if *Beep tones* is turned on). At the same time the meter automatically saves the result. The used test area is transported away from the tip of the cassette.

If you want to flag the result do not turn the meter off. The procedure for flagging results is described under “Flagging results”.

If you do not wish to flag the result you can now turn off the meter (see next page).

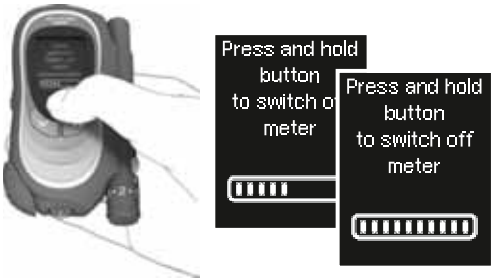
Turning off the meter

Turning off via the tip cover

1 Close the tip cover.

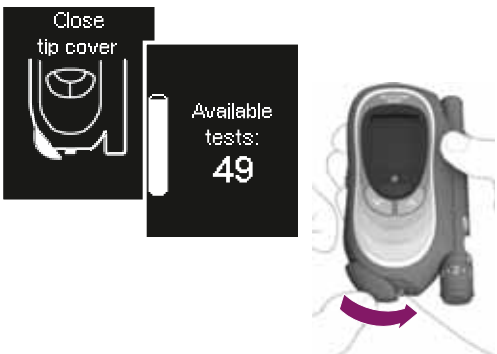
The meter displays the number of available tests and then turns off.

The result will be displayed for at least 15 seconds. If you close the tip cover before the end of this time, the result will continue to be displayed. The number of available tests does not appear until the 15 seconds have elapsed.



Turning off using the On/Off button

1 Press and hold the On/Off button until the bar on the display is filled (at least 2 seconds).



Before the meter turns off, it prompts you to close the tip cover and then displays the number of available tests for your information.

2 Close the tip cover.

Symbols which are displayed together with the result

The following symbols can be displayed together with the result:

The batteries are almost empty.

The temperature during the test was outside the permitted range of +10 to +40 °C. Despite a warning to this effect you decided to go ahead with the test.

You have turned on the target range. The result is either below the lower limit or above the upper limit of the target range set.

LO In place of a result: The result is lower than 0.6 mmol/l.

⚠ LO may indicate that your blood glucose is very low (possibly a severe hypoglycemia). Follow the relevant instructions given by your doctor immediately and repeat the test.

HI In place of a result: The result is higher than 33.3 mmol/l. Repeat the test.

Flagging results

You can flag results to describe certain events connected to the result or particular characteristics of the result. You can only flag a result if you open the *Set flag* menu while the result is still displayed after a test.

The *Set flag* menu offers you a choice of 4 flags:

- *Control test* (symbol) is intended for control tests in which you apply control solution to the test area instead of blood.
- *General* (symbol ✱): You can define the meaning of this flag yourself. For example, you can use it for results that you have obtained from alternate sites or after physical activities.
- *Before food* (apple symbol) is intended for results you have obtained before your meals.
- *After food* (bitten into apple symbol) is intended for results you have obtained after your meals.

In addition to the 4 flags, the last item in the Set flag menu is *Reminder*. You can use this to go directly to the *Reminders* menu after a test.

You can add the following flags to a result together:

- *General* and *Before food*
- *General* and *After food*

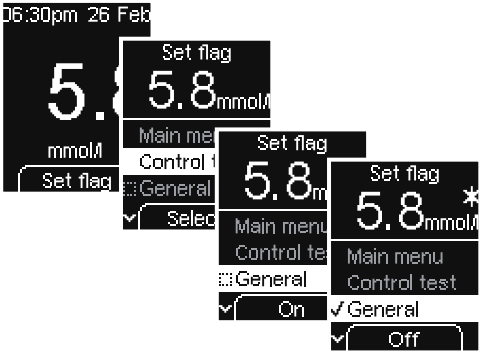
You cannot flag a result with *Before food* and *After meal* together. If either of these flags is already set, it will automatically be removed when you set the other flag.

You can change (add or remove) flags again as long as you are still in the *Set flag* menu. As soon as you leave the menu, either by going to the Main menu, selecting *Reminder* or *Control test* or turning off the meter, the flags chosen will be saved and can no longer be subsequently changed.

Reminder allows you to go directly from the *Set flag* menu after a test to set a reminder if you would like to check your blood glucose again later. You do not need to go to the Main menu or turn the meter off and on again but just select *Reminder*.

If you want to flag a result and set a reminder, you have to set the flag(s) first. Selecting *Reminder* takes you out of the *Set flag* menu and opens the *Reminders* menu.

Selecting *Control test* also takes you out of the *Set flag* menu and opens the *Control solution* menu.



The following descriptions start from the display of a result after a test.

General*, *Before food* and *After food

1 Press ⌒ *(Set flag).*

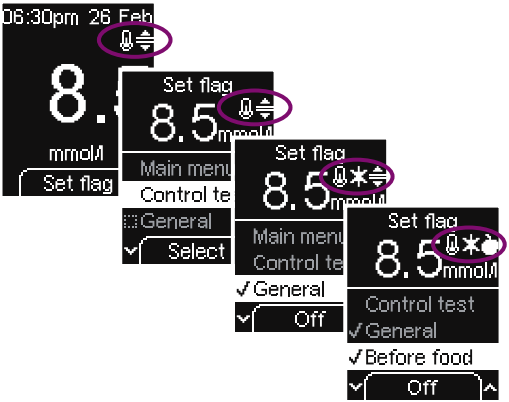
This opens the *Set flag* menu. All flags are deactivated. A checkbox ⬚ indicates that the flag is deactivated, a tick ✓ that it is activated.

2 Use ▽ △ to select *General, Before food* or *After food.*

3 Press the ⌒ button *(On)*.

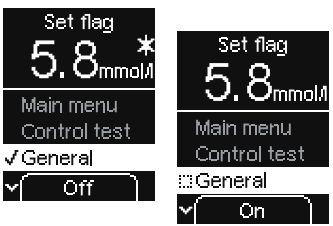
The symbol for the flag that has been activated is displayed to the right of the result.

If you want to add a further flag to the result, repeat steps 2 and 3.



3 symbols can be displayed to the right of the result. If a result is flagged with 4 symbols, the symbol ⇳ will not be displayed.

Example: If the temperature during a test was too high or too low and the test is outside the target range, the result will automatically be flagged with the symbols 🌡 and ⇳ (see Chapter 16.2 and 4.6). If you flag this result with *General* and *Before food*, the symbols ✱ and 🍎 will be displayed next to the symbol 🌡, and the symbol ⇳ will no longer be displayed (however, the flag will not be removed).



Removing a flag again:

1. Use ▽ △ to select the flag, *General*, for example.
2. Press the ⌣ button *(Off)*.

or

Leaving the *Set flag* menu:

1a Turn off the meter with ⏻.

or

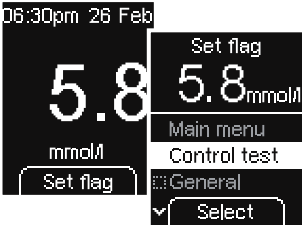
1b Use ⌃ to select *Main menu* and press *(Select)*.

2 Close the tip cover.

Reminder

1. Press *(Set flag)*.
2. Use ▼ ▲ to select *Reminder.*
3. Press *(Select)*.

This opens the *Reminders* menu. You will find all the information about this menu in Chapter 4.5.



Control test

1. Press *(Set flag).*
2. Use ▼ ▲ to select *Control test.*
3. Press *(Select)*.

The further procedure for performing a control test (test with control solution) is described in Chapter 7.2.

3.3 Evaluating results

If the displayed result agrees with the way you feel, follow the instructions given by your doctor. If the displayed result does not agree with the way you feel, perform a control test with an Accu-Chek Mobile control solution (see Chapter 7). Then repeat the blood glucose test. If the new result still does not agree with the way you feel, contact your doctor.

Do not change your treatment based on just one result.

Measuring range

The meter measures blood glucose results in the range from 0.6 to 33.3 mmol/l.

If the result is lower than 0.6 mmol/l, LO is displayed instead of a result.

LO may indicate that your blood glucose is very low (possibly a severe hypoglycemia). Follow the relevant instructions given by your doctor immediately and repeat the test.

If the result is higher than 33.3 mmol/l, HI is displayed instead of a result. Repeat the test.

Implausible results – possible sources of error

If your meter repeatedly displays implausible results or error messages, please check the points listed below.

If any of your responses to the questions listed differ from those given, make the respective corrections when you perform the next test. If you have taken all of these points into account and still obtain implausible results or error messages please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

Did you perform the blood glucose test according to the Reference Manual?	yes
Did you wash your hands with warm water and soap? Did you dry your hands well?	yes
Did you massage your finger only gently in the direction of the finger tip?	yes
Did you wait for the application prompt to be displayed before applying blood?	yes
Did you apply the blood drop to the test area immediately after it had formed?	yes
Did you perform the test within the correct temperature range (10–40 °C)?	yes
Did you observe the proper storage conditions for the meter and the test cassette (see Chapter 15 and the test cassette package insert)?	yes
Have you paid attention to the sources of error stated in the test cassette package insert?	yes

If your meter has been dropped, that can also lead to implausible results or error messages. In this case, you should also call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

4 Making settings

4.1 Settings overview

The meter has several features which you can only use after making the appropriate settings. Most of these features are intended primarily to enable you to adapt the meter to your personal needs (e.g. beep tones and acoustic reminders).

An overview of the settings is given on the following 2 pages. The respective default settings with which the meter is delivered are shown in each case.

You can perform blood glucose tests without adjusting any of the settings on the meter. In this case, all the settings are the default settings.

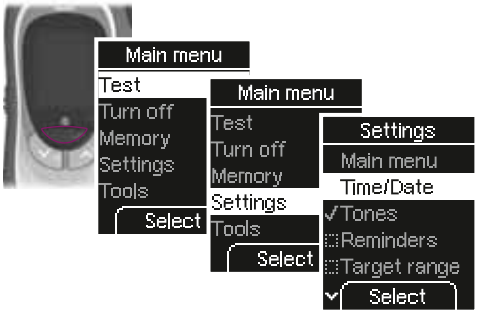
Menu	Setting	Available options		Default setting	
Time/Date	Time			Greenwich Mean Time (GMT)	
	Date			Current date	
	Time format (format for time and date)	hh:mm *	DD.MM.YY **	hh:mm am/pm	DD Month
		hh:mm	Day DD.MM.		
		hh:mm	DD Month		
		hh:mm am/pm	MM/DD/YY		
		hh:mm am/pm	MM/DD		
		hh:mm am/pm	Month DD		
		hh:mm am/pm	DD Month		
		hh:mm	YY/MM/DD		

* hh = hours, mm = minutes; e.g. 09:45 (hh:mm)

** DD = day, MM = month, YY = year; e.g. 25.11.09 (DD.MM.YY) or 11/25/09 (MM/DD/YY)

Menu	Setting	Available options	Default setting
Tones	Beep tones	On or Off	On
	Reminders	Beep tones On or Off	On
	Acoustic mode	On or Off	Off
Reminders		10 times – freely selectable daily reminders and/or a one-time reminder after a specified length of time (1, 2 or 3 hrs)	None
Target range		Lower and upper limit value / On or Off	None / Off
Volume		5 levels	Level 3
Brightness		3 levels	Level 2
Language		15 different languages	English UK

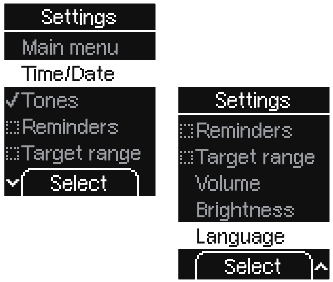
4.2 Opening the *Settings* menu



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ⌒ to open *Settings*.

The buttons to use for making settings are described in Chapters 1.5 and 1.9.

You will find a complete overview of the menus at the end of the Reference Manual.



The following options are available in the *Settings* menu:

- *Main menu:* takes you to the Main menu
- *Time/Date:* set the time and date, select the time format
- *Tones:* turn the beep tones, reminders and acoustic mode on or off
- *Reminders:* set the reminder times
- *Target range:* set the upper and lower limits for the target range
- *Volume:* set the volume for the beep tones
- *Brightness:* set the brightness for the display
- *Language:* select the language used for display texts

4.3 Setting the time and date, selecting the time format

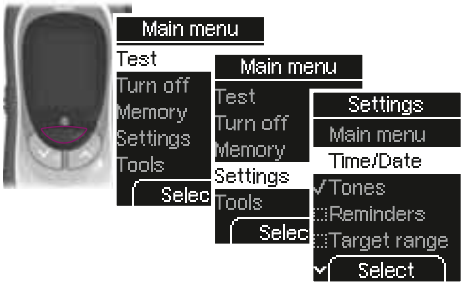
The time and date are already set in the meter. If you want to use reminders or analyse your results with a computer, for example, you should check the time and date and correct them if they deviate from the current time or date.

- All results are saved together with the time and date. If the time and date are not correctly set, the results cannot be analysed properly as a function of time.
- If the time is not correctly set and you use reminders, you will be reminded to perform a test at the wrong time.

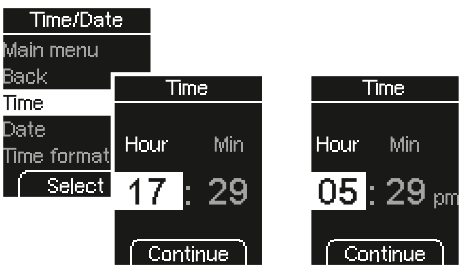
The following options are available in the *Time/Date* menu:

- *Main menu:* takes you to the Main menu
- *Back:* takes you to the *Settings* menu
- *Time:* set the time
- *Date:* set the date
- *Time format:* select the time format

Setting the time



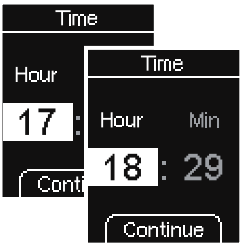
1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ● to open *Settings*,
→ use ▼ ▲ to select *Time/Date*,
→ press ● to open *Time/Date*,
→ use ▼ ▲ to select *Time*,
→ press ● to open *Time*.



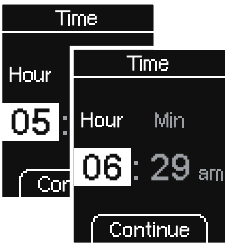
The hours are highlighted.

If you have chosen one of the 12-hour time formats, *am* (morning) or *pm* (afternoon) is also displayed after the time.

24-hour time format

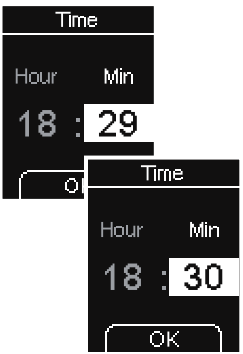


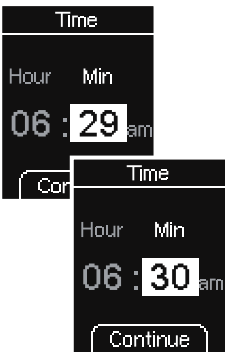
12-hour time format



2 Use ▼ ▲ to set the hour.

3 Press ⌣ *(Continue).*





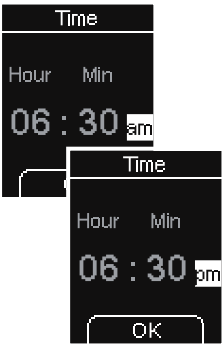
The minutes are now highlighted.

4 Use ▼ ▲ to set the minutes.

5 Press ⌣ (*OK* or *Continue).*

24-hour time format

12-hour time format



Only for times in 12-hour time format:

The suffix *am* or *pm* is highlighted.

5a Use ▼ ▲ to select *am* or *pm.*

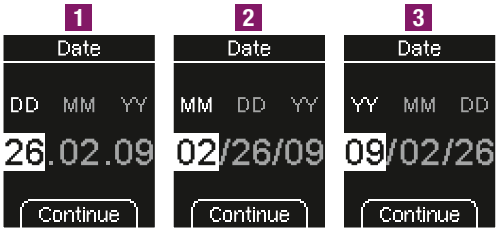
5b Press ⌒ *(OK).*

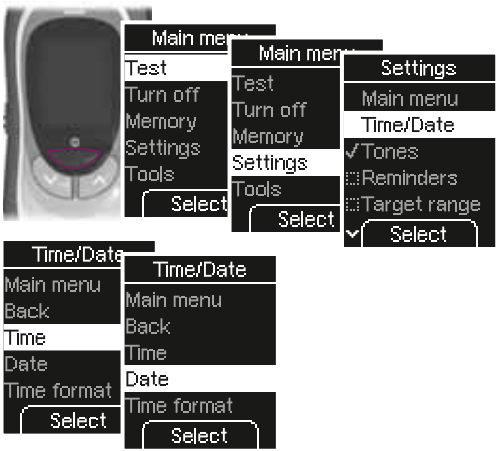
The meter will then display the time you just set.

6 Press ⌒ *(OK).*

The meter returns to the *Time/Date* menu.

Setting the date





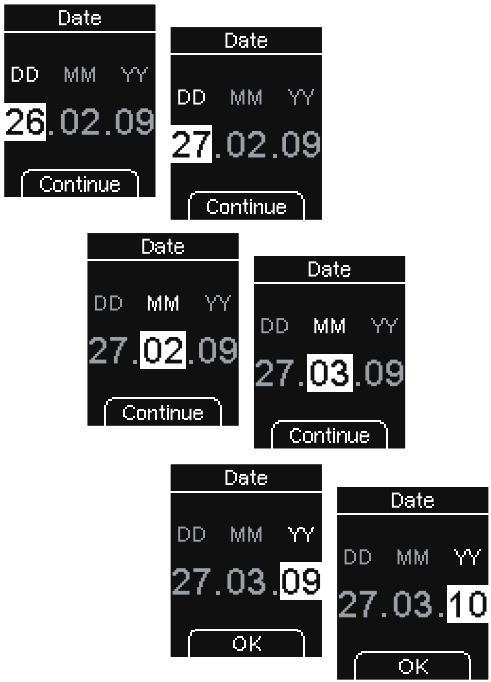
The sequence in which you set the day, month and year while setting the date depends on the time format you have set. Apart from the sequence, the procedure is the same in all cases.
The following sequences are possible:

1 Day – Month – Year

2 Month – Day – Year

3 Year – Month – Day

1 Turn on the meter with ⏻,
→ wait for *Main menu*,
→ use ▽ △ to select *Settings*,
→ press ⌒ to open *Settings*,
→ use ▽ △ to select *Time/Date*,
→ press ⌒ to open *Time/Date*,
→ use ▽ △ to select *Date*,
→ press ⌒ to open *Date*.



The following example describes the procedure for setting the date in the case of sequence **1**.

The day is highlighted.

2 Use ▼ ▲ to set the day.

3 Press ⌓ *(Continue)*.

The month is now highlighted.

4 Use ▼ ▲ to set the month.

5 Press ⌓ *(Continue)*.

The year is now highlighted.

6 Use ▼ ▲ to set the year.

7 Press ⌓ *(OK)*.

or

or

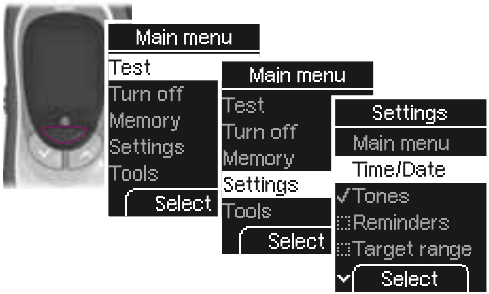
The meter will then display the date you just set. The date will be displayed according to the time format you have set (see examples on left).

8 Press *(OK)*.

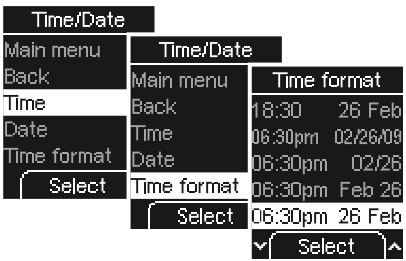
The meter returns to the *Time/Date* menu.

If the date you have set does not exist (e.g. 31 April), the meter returns to the first setting position when you confirm the last entry with *OK* (step 7). You must correct the date before the meter will accept it.

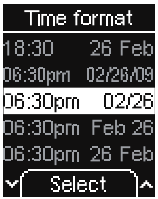
Selecting the time format

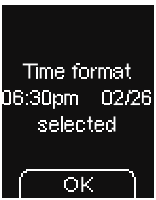


1 Turn on the meter with ⏻,
→ wait for *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ● to open *Settings*,
→ use ▼ ▲ to select *Time/Date*,
→ press ● to open *Time/Date*,
→ use ▼ ▲ to select *Time format*,
→ press ● to open *Time format*.



The currently set time format is highlighted.





2 Use ▼ ▲ to select the desired time format.

3 Press ▬ *(Select)*.

The meter will then display the time format you just set.

4 Press ▬ *(OK)*.

The meter returns to the *Time/Date* menu.

4.4 Setting tones

The following options are available in the *Tones* menu:

- *Main menu:* takes you to the Main menu
- *Back:* takes you to the *Settings* menu
- *Beep tones:* turn the beep tones on or off
- *Reminders:* turn the beep tone for reminders on or off
- *Acoustic mode:* turn the acoustic mode on or off

- **Beep tones:** If *Beep tones* is turned on (default setting), a beep will sound at the following times during a test:
- when the display check starts,
- when the prompt *Apply blood* is displayed and you can apply blood or control solution to the test area,
- when *Test in progress* is displayed and the test begins,
- when the result is displayed,
- when an error message is displayed (a double beep 4 times in succession).

Reminders: Here you can set whether or not you want reminders to be accompanied by beeps (see Chapter 4.5). If *Reminders* is turned on (default setting), the beeps will sound.

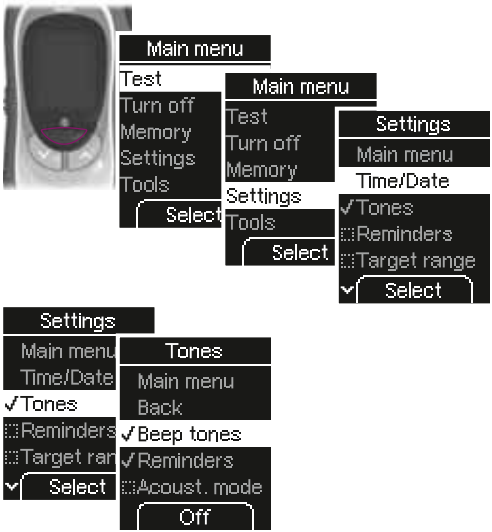
Acoustic mode: If the acoustic mode is turned on (default setting: off), the meter guides you through the blood glucose test with the beeps described above. At the end of the test, the meter also announces the result in the form of a sequence of beeps. The acoustic mode is described in Chapter 6.

⚠ Visually impaired people should only use the acoustic mode if they have familiarized themselves fully with the acoustic mode with the assistance of a sighted person and have demonstrated that they are able to understand results correctly without exception using the acoustic mode. The acoustic mode should always be used with great care. Otherwise there is a risk that the results will be misinterpreted by the person performing the test. An incorrect insulin dose resulting from a misinterpreted result can cause considerable health damage and can even be fatal. Especially if unexpected and abnormal blood glucose values are obtained using the acoustic mode, the result must be checked by repeating the test together with a sighted person.

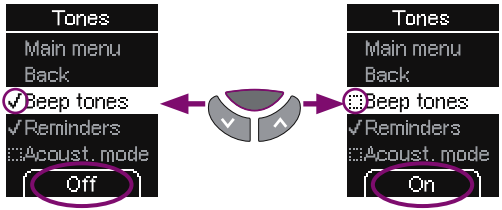
Visually impaired people should not test their blood glucose without assistance from a sighted person.

Turning the beep tones, reminders and acoustic mode on and off

Beep tones, *Reminders* and *Acoustic mode* can only be turned on and off. The procedure is always the same and is therefore only described here for *Beep tones.*



1 Turn on the meter with ⏻,
- ➔ wait for *Main menu*,
- ➔ use ▽ △ to select *Settings*,
- ➔ press ⌒ to open *Settings*,
- ➔ use ▽ △ to select *Tones*,
- ➔ press ⌒ to open *Tones*,
- ➔ use ▽ △ to select *Beep tones* (or another function).



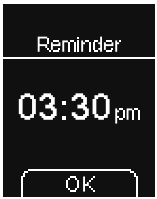
- A tick ✓ means that the function is activated
- A checkbox ⬚ means that it is deactivated

2 Press ▬ *(On* or *Off)* to turn the beep tones on or off.

The meter remains in the *Tones* menu.

ⓘ If you wish to use the acoustic mode, you must turn both *Acoustic mode* and *Beep tones* on.

4.5 Setting reminders



You can set up to 10 reminder times.

If the meter is turned off, “Reminder” and the time of the reminder will be displayed daily at the time you have set. If you have turned on *Reminders* in the *Tones* menu, beeps will also sound.

You can turn off the reminder and the beeps by pressing any button. If you do not press a button, the meter turns off automatically after 20 seconds. The reminder will not be repeated.

If you perform a blood glucose test 10 minutes or less before a reminder, the reminder will not be given.

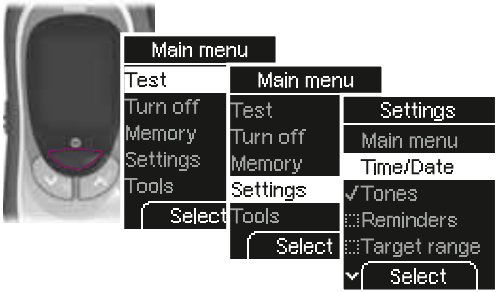
The following options are available in the *Reminders* menu:

- *Main menu:* takes you to the Main menu
- *Back:* takes you to the *Settings* menu
- *New:* set a new time for a daily reminder
- *Edit:* edit an existing reminder time (is only displayed if at least one time has been set)
- *In 1 hour:* set a one-time reminder in 1 hour
- *In 2 hours:* set a one-time reminder in 2 hours
- *In 3 hours:* set a one-time reminder in 3 hours

Reminders menu when 10 reminders have already been set.

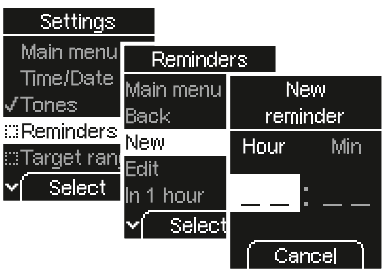
New, *In 1 hour*, *In 2 hours* and *In 3 hours* are not displayed if 10 reminder times have already been set.

Setting a new reminder



1 Turn on the meter with ⏻,
- ➔ wait for *Main menu*,
- ➔ use ▽ △ to select *Settings*,
- ➔ press ⌒ to open *Settings*,
- ➔ use ▽ △ to select *Reminders*.

The checkbox ⬚ to the left of *Reminders* means that no reminders have been set or that all reminders set have been turned off. A tick ✓ means that at least one reminder has been set and is turned on.

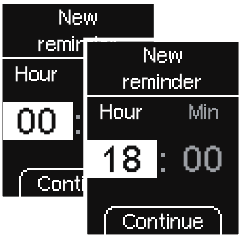


2 Press ⌒ to open *Reminders*,
- ➔ use ▽ △ to select *New*,
- ➔ press ⌒ to open *New*.

As you are about to set a new reminder time, only dashes are displayed for the hours and minutes.

If you decide you do not want to set a reminder time after all, press the ⌒ button *(Cancel)* to return to the *Reminders* menu.

24-hour time format



12-hour time format

The hours are highlighted.

3 Use ▽ △ to set the hour.

The first time you press the button, the time will go to 00:00 (24-hour time format) or 01:00 am (12-hour time format).

4 Press ⌓ *(Continue)*.

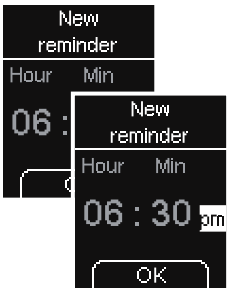
The minutes are now highlighted.

5 Use ▽ △ to set the minutes.

6 Press ⌓ (*OK* or *Continue*).

24-hour time format

12-hour time format



Only for times in 12-hour time format:

The suffix *am* or *pm* is highlighted.

6a Use ▼ ▲ to select *am* or *pm*.

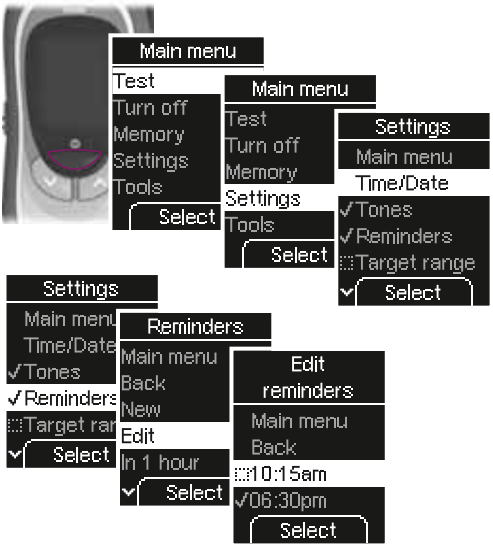
6b Press ⌒ *(OK)*.

The meter will then display the reminder time you just set. The reminder is also turned on.

7 Press ⌒ *(OK)*.

The meter returns to the *Edit reminders* menu.

Editing an existing reminder (turn on/off, change, delete)



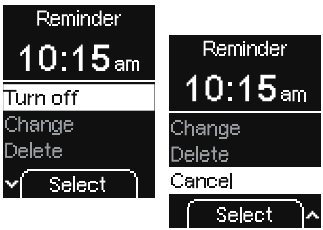
1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ● to open *Settings*,
→ use ▼ ▲ to select *Reminders*,
→ press ● to open *Reminders*,
→ use ▼ ▲ to select *Edit*,
→ press ● to open *Edit*.

A list with the reminders that have already been set appears on the display.

A checkbox ☐ indicates that the reminder is turned off, a tick ✓ that it is turned on.

2 Use ▼ ▲ to select the reminder time you wish to edit.

3 Press ● *(Select)*.



You will then see the following options below the time:

- *Turn off*, to turn off a reminder that is turned on (the time remains unchanged), or *Turn on* to turn on a reminder that has been turned off.
- *Change*, to change the reminder time.
- *Delete*, to delete this reminder.
- *Cancel*, if you do not wish to edit this reminder.

In the following examples, only times in the 12-hour time format are shown and described.

Turning a reminder on or off

1 Use ▼ ▲ to select *Turn on (Turn off)*.

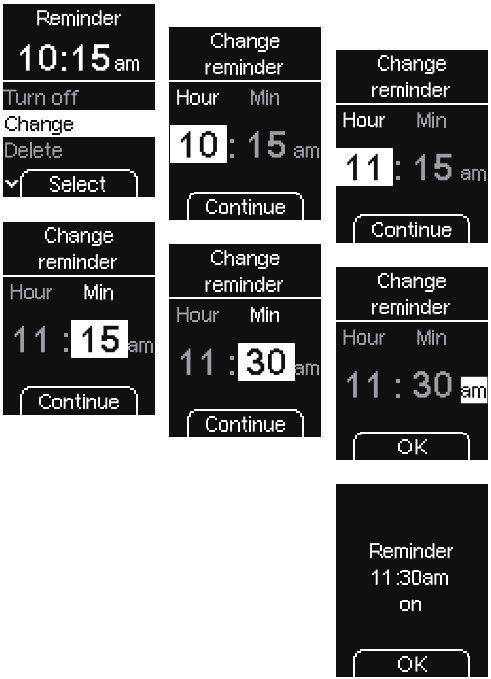
2 Press ⌒ *(Select)*.

The meter will then display the reminder time you just turned on or off.

3 Press ⌒ *(OK)*.

The reminder is now turned on or off.

The meter returns to the *Edit reminders* menu.



Changing a reminder

1 Use ▼ ▲ to select *Change*.

2 Press ⌣ *(Select)*.

3 Set the new reminder time (see “Setting a new reminder” for how to do this).

The meter will then display the reminder time you just changed.

4 Press ⌣ *(OK)*.

The reminder time has now been changed and the reminder is also turned on.

The meter returns to the *Edit reminders* menu.

Deleting a reminder

1 Use ▼ ▲ to select *Delete*.

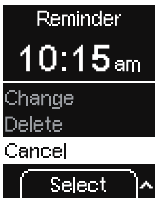
2 Press ⌒ *(Select)*.

The meter will then display the reminder time you just deleted.

3 Press ⌒ *(OK)*.

The reminder time has now been deleted.

The meter returns to the *Edit reminders* menu or to the *Reminders* menu if you have deleted the last reminder.



Cancel – Not editing a reminder

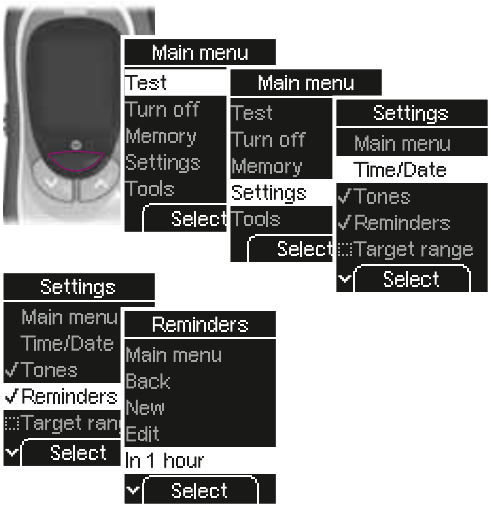
If you do not want to edit a selected reminder after all, you can cancel the editing procedure as follows.

1 Use ▼ ▲ to select *Cancel.*

2 Press ⌒ *(Select)*.

The meter returns to the *Edit reminders* menu without changing the reminder.

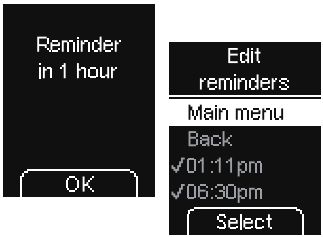
Setting a one-time reminder in 1 hour, 2 hours or 3 hours



The meter can give you a one-time reminder to perform a test in 1 hour, 2 hours or 3 hours. You do not need to set a time for this. These reminders can be useful if you wish to check a result you just obtained, for example. When the reminder has been given, it is automatically deleted.

1 Turn on the meter with ⏻,
- → wait for the *Main menu*,
- → use ▽ △ to select *Settings*,
- → press ⌒ to open *Settings*,
- → use ▽ △ to select *Reminders*,
- → press ⌒ to open *Reminders*,
- → use ▽ △ to select *In 1 hour* (or *In 2 hours* or *In 3 hours*).

2 Press ⌒ *(Select)*.



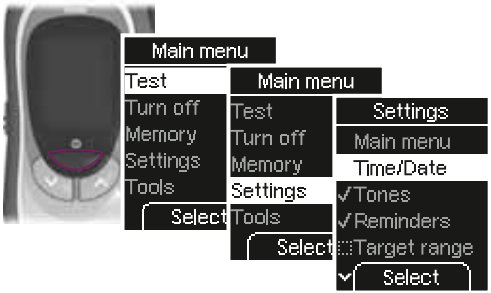
The meter displays that it will give you a reminder in 1 hour (or in 2 or 3 hours).

3 Press *(OK)*.

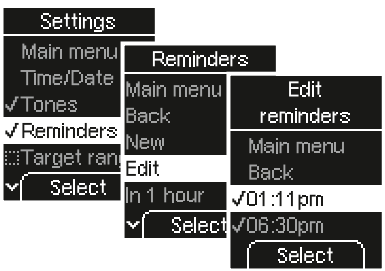
The meter returns to the *Edit reminders* menu.

The one-time reminder will be displayed in the list of reminders in the same way as any other reminder, i.e. the time will be displayed there and not “In 1 hour”, for example.

Deleting a one-time reminder



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ⌒ to open *Settings*,
→ use ▼ ▲ to select *Reminders*,
→ press ⌒ to open *Reminders*,
→ use ▼ ▲ to select *Edit*,
→ press ⌒ to open *Edit*.

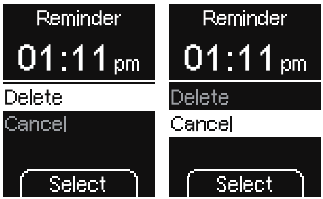


A list with the reminders that have already been set appears on the display.

A checkbox ⬚ indicates that the reminder is turned off, a tick ✓ that it is turned on.

2 Use ▼ ▲ to select the reminder time you wish to delete.

3 Press ⌒ *(Select)*.



In the case of a one-time reminder, **only** the following options are displayed below the time:

- *Delete*, to delete this reminder
- *Cancel*, if you do not wish to delete this reminder

Unlike the daily reminders, you cannot turn one-time reminders on or off or change their time.

4 Use ▼ ▲ to select *Delete*.

5 Press ⌒ *(Select)*.

The meter will then display the reminder time you just deleted.

6 Press ⌒ *(OK)*.

The reminder time has now been deleted.

The meter returns to the *Edit reminders* menu or to the *Reminders* menu if you have deleted the last reminder.

4.6 Setting a target range

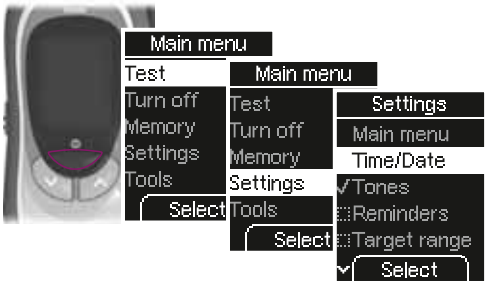
You can enter your personal target range for blood glucose values (default setting: Off). Results above or below this target range will be flagged with the symbol .

The target range gives the blood glucose values which should be achieved if the treatment is optimal. Discuss with your doctor what target range you should set.

You set the target range by entering the lower and upper limits. The lower limit can be set to between 2.8 and 5.5 mmol/l. The upper limit can be set to between 5.5 and 11.1 mmol/l. Both limits can be set in steps of 0.1 mmol/l.

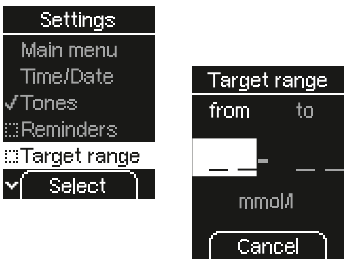
If you wish to use the lower limit of the target range as an indicator of a possible hypo, it is important to remember this: The indicator will only be reliable if the limit has been properly selected. We therefore strongly recommend that you talk to your healthcare professional before you set the limit. This function is no substitute for hypoglycaemia training by your doctor or diabetes team.

Setting a target range



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ▬ to open *Settings*,
→ use ▼ ▲ to select *Target range*,
→ press ▬ to open *Target range*.

A checkbox ⬚ indicates that the target range is turned on, a tick ✓ that it is turned off.



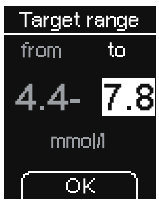
If you have not yet set a target range, the meter will take you directly to the display for entering the upper and lower limits. The two limits are indicated by dashes only.

If you decide you do not want to set a target range after all, press the ▬ button *(Cancel)* to return to the *Settings* menu.

2 Use ▼ ▲ to set the lower limit.

The first time you press a button, the default setting of 3.9 mmol/l will be entered.

3 Press ⌒ *(Continue)*.



The default setting of 7.8 mmol/l will be entered for the upper limit.

4 Use ▼ ▲ to set the upper limit.

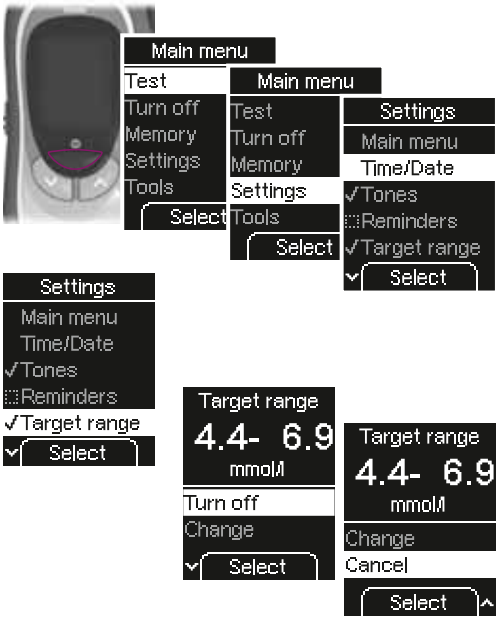
5 Press ⌒ *(OK)*.

The meter will then display the target range you just set. It is also turned on.

6 Press ⌒ *(OK)*.

The meter returns to the *Settings* menu.

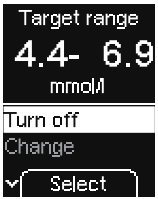
Editing an existing target range (turn on/off, change)



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ● to open *Settings*,
→ use ▼ ▲ to select *Target range*,
→ press ● to open *Target range*.

Once you have set a target range, the *Target range* menu will offer you the following options:

- *Turn off*, to turn off the target range (the upper and lower limits you have entered remain unchanged), or *Turn on* to turn on the target range.
- *Change*, to change the upper and lower limits of the target range.
- *Cancel*, if you do not wish to edit the target range.



Turning the target range on or off

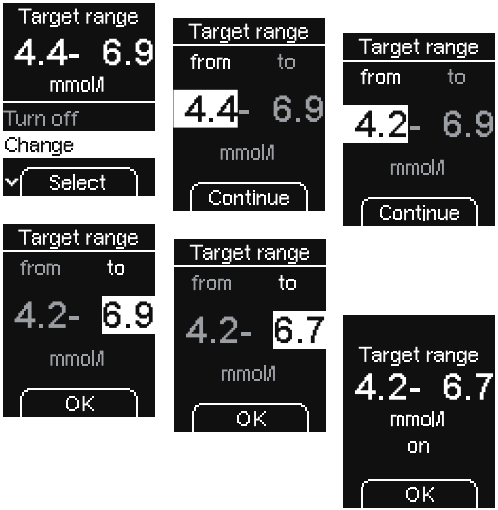
1 Use ▼ ▲ to select *Turn off (Turn on)*.

2 Press ⌒ *(Select)*.

The meter displays that the target range is now turned off (turned on).

3 Press ⌒ *(OK)*.

The meter returns to the *Settings* menu.



Changing a target range

1 Use ▼ ▲ to select *Change.*

2 Press ⌒ *(Select)*.

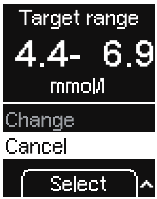
3 Set the new target range (see “Setting a target range” for how to do this).

The meter will then display the target range you just changed.

4 Press ⌒ *(OK)*.

The target range has now been changed and is also turned on.

The meter returns to the *Settings* menu.



Cancel – Not editing the target range

If you do not want to change the target range after all, you can cancel the editing procedure as follows:

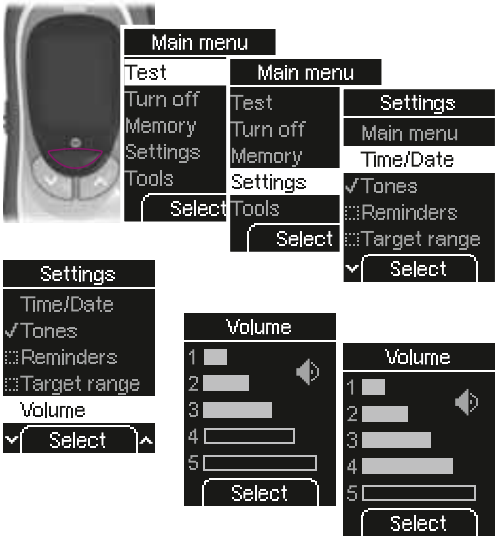
1 Use ▼ ▲ to select *Cancel*.

2 Press ⌒ *(Select)*.

The meter returns to the *Settings* menu without changing the target range.

4.7 Setting the volume

You can set the volume for the beep tones to one of 5 different levels.



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ⌒ to open *Settings*,
→ use ▼ ▲ to select *Volume*,
→ press ⌒ to open *Volume*.

The more bars are filled in on the display, the louder the volume. The default setting is 3.

2 Use ▼ ▲ to set the volume.

Each time you press the button, a beep sounds in the new volume selected.

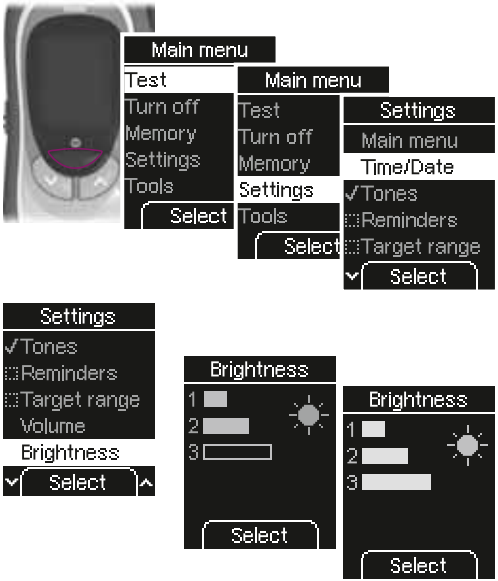
3 Press ⌒ *(Select)*.

The meter will then display the volume level you just set.

4 Press *(OK)*.

The meter returns to the *Settings* menu.

4.8 Setting the brightness



You can set the brightness of the texts and symbols appearing on the display to one of 3 different levels.

1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ⌒ to open *Settings*,
→ use ▼ ▲ to select *Brightness*,
→ press ⌒ to open *Brightness*.

The more bars are filled in on the display, the brighter the display. The default setting is 2.

2 Use ▼ ▲ to set the desired brightness.

The brightness of the display will be adjusted to the level you have selected.

3 Press ⌒ *(Select)*.

The meter will then display the brightness level you just set.

4 Press *(OK)*.

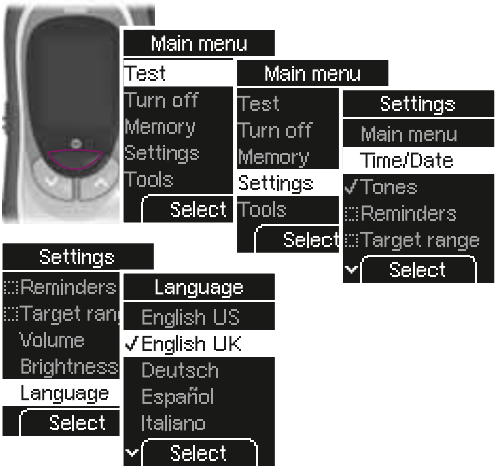
The meter returns to the *Settings* menu.

4.9 Setting the language

You can choose from a total of 15 languages for the texts appearing on the display. You will already have set the language when you turned on the meter for the first time.

If you want to change this selection at a later date, you can set any of the following languages:

- English US
- English UK
- Deutsch
- Español
- Italiano
- Français
- Dansk
- Svenska
- にほんご
- Türkçe
- Português
- Ελληνικά
- Norsk
- Suomi
- Nederlands



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Settings*,
→ press ⌒ to open *Settings*,
→ use ▼ ▲ to select *Language*,
→ press ⌒ to open *Language*.

The currently set language is highlighted.

2 Use ▼ ▲ to select the desired language.

3 Press ⌒.

The meter will then display the language you just selected.

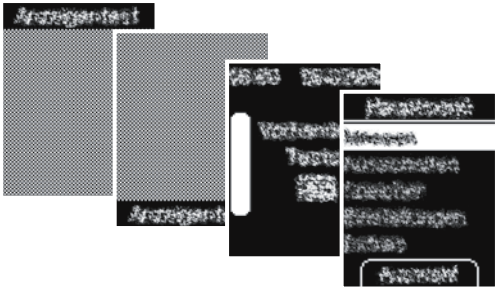
4 Press ⌒ *(OK)*.

The meter returns to the *Settings* menu.

Correcting a wrongly set language

If you have set the wrong language by mistake, you may not be able to read the menus any more. You can still change the language with the help of the following instructions.

1 Turn on the meter with ⏻.



2 Wait until the display sequence shown above has been displayed and the display does not change anymore.

The last (right-hand) display is the Main menu, but with the text displayed in the wrongly set language.

3 Press ▼ 3 times.

The “Settings” menu is now highlighted.

4 Press ⌓.

5 Press ▼ 6 times.

The “Language” menu (the last item) is now highlighted.

6 Press ⌓.

The “Language” menu is now open.

7 Use ▼ ▲ to select the desired language.

8 Press ⌓.

The meter will then display the language you just selected.

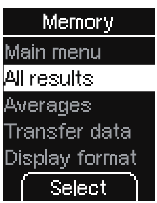
9 Press ⌓.

The meter returns to the “Settings” menu.

5 Using the meter a diary

The meter has a 500-value memory for saving results together with the time and date. You do not need to save the results manually. The meter automatically saves all the results.

In addition to the result, the time and the date, your meter also saves all other information that is relevant to the test. This includes all symbols displayed with the result after a test (except the battery symbol) and the flags you added to the results.



The following options are available in the *Memory* menu:

- *Main menu:* takes you to the Main menu
- *All results:* display all the saved results
- *Averages:* view the averages for the last 7, 14 or 30 days
- *Transfer data:* transfer the saved results (to a computer, PDA (handheld computer) or special analysis systems)
- *Display format:* select how the saved results are to be displayed

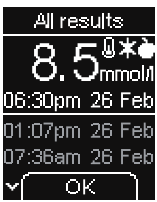
5.1 Viewing saved results

There are two different ways of viewing all saved results:

- via the *Memory* menu
- using the ☑ button

The ☑ button takes you directly to the saved results. In this case, the options offered in the *Memory* menu are not available. If you want to use all the options in the *Memory* menu, you must open it from the Main menu.

Display format *Single value*



Display format *List*

There are two display formats available for the saved results. *Single value* and *List*. The default setting is *Single value*. The procedure for changing the display format is described in Chapter 5.4.

Symbols saved together with the result appear to the right of the result. In the display format *Single value*, 4 symbols can be displayed, in the display format *List* only 3. If the result is flagged with 4 symbols, the symbol ⇳ (result outside the target range) is not displayed in the display format *List*.

Display format
Single value

Display format
List

The last (most recent) result in the memory is displayed as XX.X or X.X with dashes instead of the time and date:

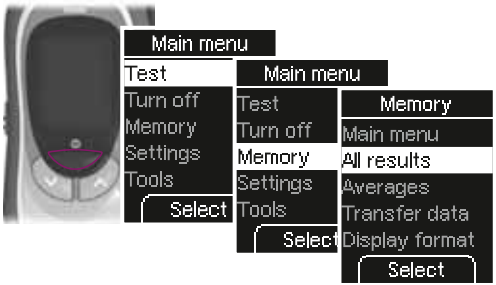
This display means that the last test did not deliver any result. In this case, an error message was displayed during the last test or you did not apply blood (or control solution) after the prompt *Apply blood* was displayed. After the next test that delivers a result, the result displayed as X will be deleted from the memory.

Display format
Single value

Display format
List

If no results have been saved, only *All results* and *OK* will be displayed.

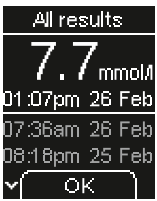
Via the *Memory* menu



Viewing saved results via the *Memory* menu:

Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▽ △ to select *Memory,*
→ press ⌒ to open *Memory,*
→ use ▽ △ to select *All results,*
→ press ⌒ to open *All results.*

Display format
Single value



Display format
List

The last saved result will be displayed, as either *Single value* or *List*, depending which display format has been set.

The command for the ⌒ button is *OK*.

The procedure for viewing all saved results is described under “Viewing all saved results”.

Leaving the saved results:

Press ⌒ *(OK)*.

The meter returns to the *Memory* menu.

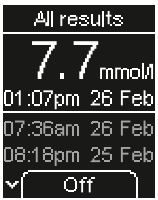
Via the ▽ button (down)

Viewing saved results using the ▽ button:

With the meter off:

Press and hold ▽ until the meter turns on (longer than 2 seconds).

Display format
Single value



Display format
List

The last saved result will be displayed, as either *Single value* or *List*, depending which display format has been set.

The command for the ⌒ button is *Off*.

The procedure for viewing all saved results is described under “Viewing all saved results”.

Leaving the saved results:

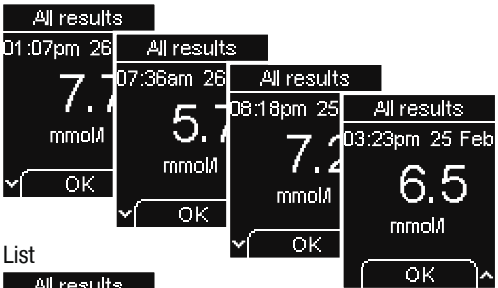
Press ⌒ *(Off)*.

The meter turns off.

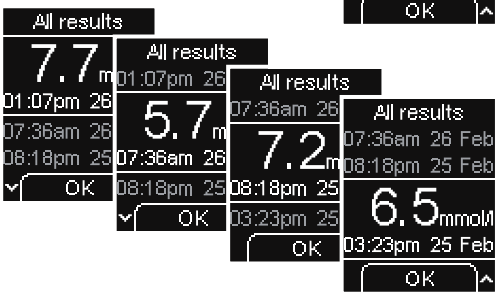
Viewing all saved results

Irrespective of the procedure you use to view the saved results (via the *Memory* menu or using the ☑ button), you go to all saved results in the same way.

Single value



List



Viewing older results:

1 Press ☑ to go to the next older result.

If you then want to return to the more recent results:

2 Press ☒ to go to the next more recent result.

If you hold the buttons down, the results will be displayed in rapid succession, first slowly, then more quickly. The display stops when the oldest and the most recent (last) results are reached.

5.2 Viewing averages

The meter can calculate averages from the saved results.

You can choose which results are used for calculation of the averages:

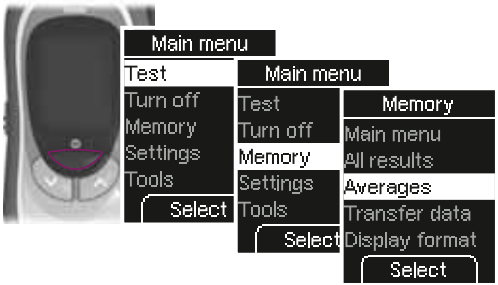
- all results
- only results flagged *Before food*
- only results flagged *After food*

When you have made this selection, you can choose the period of time in which the results were obtained.

- the last 7 days
- the last 14 days
- the last 30 days.

The average will be calculated from all results corresponding to your choice. However, the following results will not be included in the calculation:

- control tests (flagged with),
- results you have flagged with ✱ *(General)*,
- results displayed as LO or HI,
- results of tests performed outside the permitted temperature range of +10 to +40 °C (flagged with).



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Memory*,
→ press ● to open *Memory*,
→ use ▼ ▲ to select *Averages*,
→ press ● to open *Averages*.

The following options are available in the *Averages* menu:

- *Main menu:* takes you to the Main menu
- *Back:* takes you to the *Memory* menu
- *All results:* calculate the average from all results
- *Before food:* calculate the averages from the results flagged *Before food*
- *After food:* calculate the averages from the results flagged *After food*

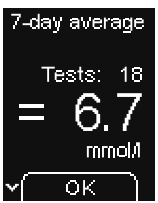
2 Use ▼ ▲ to select *All results, Before food* or *After food.*

3 Press ⌒ *(Select)*.

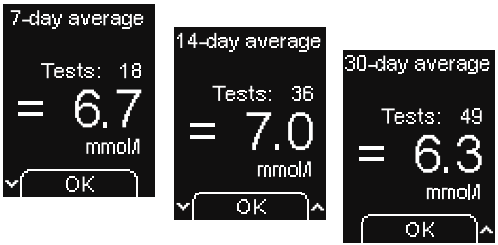
4 Use ▼ ▲ to choose the period in which the results were obtained: 7, 14 or 30 days.

Selecting the time period only determines which average will be displayed first. You can later switch directly from one time period to the others.

5 Press ⌒ *(Select)*.



The selected average is displayed, together with the number of results (called Tests) from which the average was calculated.

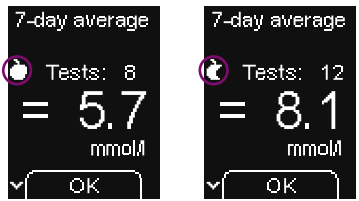


6 Press ▼ to switch from the 7-day average to the 14-day average and then to the 30-day average.

7 Press ▲ to switch from the 30-day average back to the 14-day average and then to the 7-day average.

8 Press *(OK)*.

The meter returns to the *Averages* menu.



Averages *Before food* are marked with the symbol .

Averages *After food* are marked with the symbol .

The meter calculates the average for a time period even if the saved results cover a shorter period. Example: tests were only performed in the last 5 days. In this case, the averages for all three periods (7, 14 and 30 days) are calculated from the results of the last 5 days.

If no average can be calculated, XX is displayed instead of a value and the number of results (Tests) is given as zero. This is the case if either no results or only results which are not used for calculation of averages were saved in the specified period.

In the event that you changed the date or time, then performed a test and afterwards re-set the date or time, the meter only calculates the average from the results which the meter saved in uninterrupted chronological order. If the chronological order was interrupted, the earlier results are ignored. If you have not performed any tests since you made the change, XX is displayed instead of a value and the number of results (Tests) is given as zero.

5.3 Transferring results

The meter has an inbuilt IrDA (Infrared Data Association) standard infrared window permitting wireless transfer of the results to a suitably equipped computer, PDA (handheld computer) or to special analysis systems.

The infrared window is located in the battery compartment cover of the meter.

Infrared window

There are two ways of transferring the results:

- with special products from Roche Diagnostics which can also analyse results,
- in the form of a table which you can then process with a spreadsheet program, for example.

Roche Diagnostics offers a variety of special hardware and software products for analysis which extend the integrated notebook functions of your meter. These products enable you and your doctor to manage your data more effectively and, through their graph and table views, make it easier for you to understand your results.

Depending on the type of analysis you intend to perform, you will require a special software product and/or special hardware products. For further information, please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

If you already have a hardware or software product from Roche Diagnostics to enable you to transfer and analyse results, it may not recognize more recent meters, so the results will not be transferred. You may need a more recent software version for your hardware or software product. In this case, please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

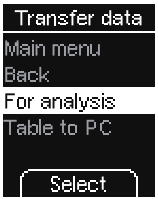
The results remain in the meter's memory after transfer.

You cannot perform a test while results are being transferred.

There are two ways of opening the *Transfer data* menu:

- using the ⌄ and ⌃ buttons
- via the *Memory* menu

In the *Transfer data* menu, you can choose how you wish to transfer the results.



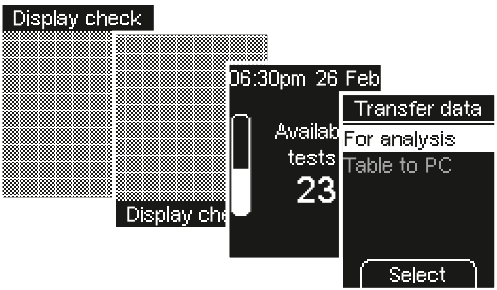
The following options are available in the *Transfer data* menu:

- *Main menu:* takes you to the *Main menu* (only if you opened the menu from the *Memory* menu)
- *Back:* takes you to the *Memory* menu (only if you opened the menu from the *Memory* menu)
- *For analysis:* transfer the results with hardware or software products from Roche Diagnostics
- *Table to PC:* transfer the results to a PC in the form of a table

Starting the transfer using the ▽ and △ buttons

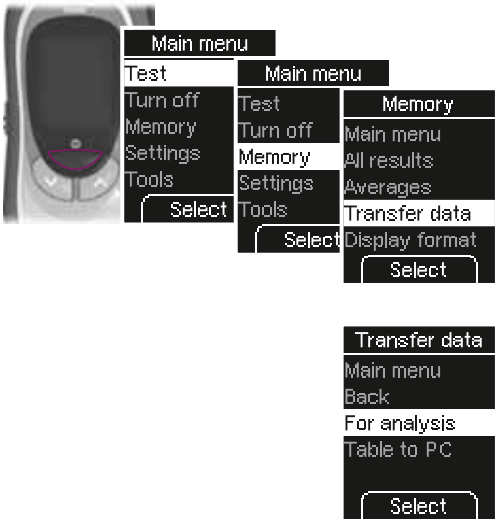
With the meter off:

Press and hold the ▽ and △ buttons simultaneously until the meter turns on (longer than 2 seconds).



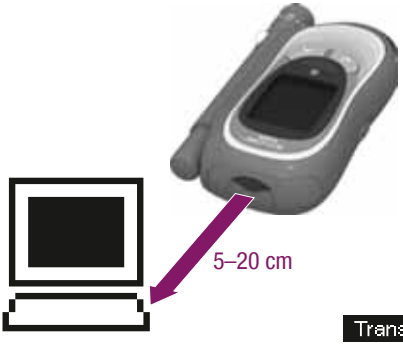
After the display check and the number of available tests, the *Transfer data* menu is displayed.

Starting the transfer via the *Memory* menu

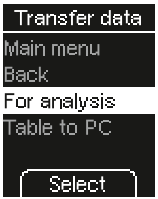


Turn on the meter with ⏻,
➔ wait for *Main menu*,
➔ use ▼ ▲ to select *Memory,*
➔ press ▭ to open *Memory,*
➔ use ▼ ▲ to select *Transfer data,*
➔ press ▭ to open *Transfer data.*

Transferring results for further analysis

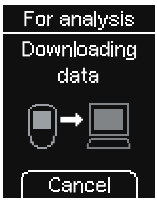


1. Please read the instructions for use supplied with the software or hardware you are using. These will include instructions on how to transfer data.
2. Make the receiving end (software product or hardware) ready to transfer the results.
3. Position the meter 5–20 cm away from the infrared window of the receiving end. Point the two infrared windows towards one another.



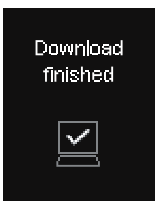
4. In the *Transfer data* menu: use ▼ ▲ to select *For analysis.*
5. Press ▬ *(Select)* to start transferring the results.

6 If necessary, start the transfer of the results at the receiving end (software product or hardware).



During the transfer, you will be informed of the progress on the display.

If you do not want to transfer the results after all, you can abort the transfer using the button *(Cancel)*. The meter returns to the *Memory* menu (if you came from the *Memory* menu) or turns off (if you turned on the meter using the buttons).



When the download of the results is finished, the meter turns off automatically about 2 seconds later.

Transferring results as a table

The meter can transfer the results to a computer without any special hardware or software. The only prerequisite is that the computer has an infrared window according to the IrDA standard (Infrared Data Association).

The results are transferred as a CSV file. CSV in this case stands for *Comma Separated Values* as the individual results are separated by semicolons.

CSV files can be opened with a text editor or spreadsheet program, for example.

Where you find the CSV file on your computer depends on the settings in your operating system for wireless transmission of files via the infrared window.

The CSV file always contains all the results saved in your meter. Results already transferred at an earlier date are transferred again.

The CSV file contains the following information:

- *Serial number:* the serial number of the meter
- *Download Date (DD.MM.YYYY), Download Time (hh:mm):* the date and time when the meter transferred the results to the computer.
- Date (DD.MM.YYYY), time (hh:mm), result and unit of the results saved in the meter.
- Flags added to the results, indicated by an “X”.

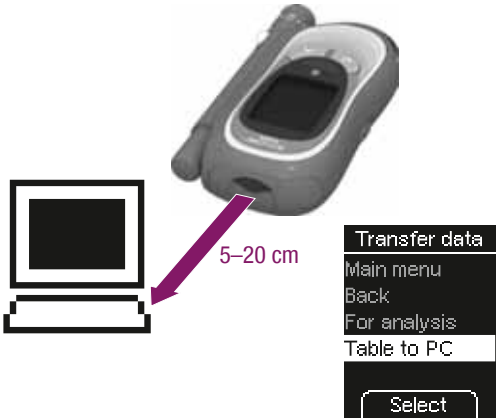
In the CSV file, the date is always displayed in the format DD.MM.YYYY and the time always in the 24-hour time format (hh:mm). The time format set in the meter has no influence on the format of the date and time in the CSV file.

CSV file opened in a text editor

Serial number;Download Date;Download Time
123456789;10.05.2009;09:18
Date;Time;Result;Unit;Temperature warning;Beyond target range;General;Before food;After food;Control test
10.05.2009;08:21;6.5;mmol/l; ; ; ; ; ;
09.05.2009;18:05;7.1;mmol/l; ; ; ; ; ;
09.05.2009;12:37;7.5;mmol/l; ;X; ; ; ;
09.05.2009;08:16;6.2;mmol/l; ; ; ;X; ;
08.05.2009;18:39;3.2;mmol/l; ; ; ; ; ;X

CSV file opened in a spreadsheet program (example)

Serial number				Download Date	Download Time				
123456789				10.05.2009	09:18				
Date	Time	Result	Unit	Temperature warning	Beyond target range	General	Before food	After food	Control test
10.05.2009	08:21	6.5	mmol/l						
09.05.2009	18:05	7.1	mmol/l						
09.05.2009	12:37	7.5	mmol/l		X				
09.05.2009	08:16	6.2	mmol/l				X		
08.05.2009	18:39	3.2	mmol/l						X

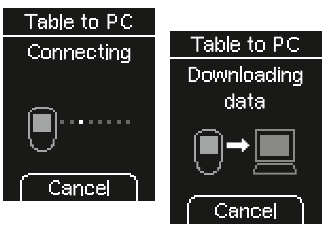


1 Turn on the computer.

2 Position the meter 5–20 cm away from the infrared window of the computer. Point the two infrared windows towards one another.

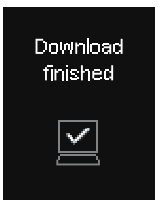
3 In the Transfer data menu: Use ▼ ▲ to select *Table to PC.*

4 Press the ▬ *(Select)* to start transferring the results.



During the transfer, you will be informed of the progress on the display.

If you do not want to transfer the results after all, you can abort the transfer using the button *(Cancel)*. The meter returns to the *Memory* menu (if you came from the *Memory* menu) or turns off (if you turned on the meter using the buttons).



When the transfer of the results is finished, the meter turns off automatically about 2 seconds later.

If the transfer is unsuccessful

If the results are not transferred, the meter turns off automatically after about 60 seconds.

Possible reasons for an unsuccessful transfer are:

- A transfer error occurred.
  Start the transfer of the results again.
- The infrared windows are too far apart or not properly facing each other.
  Reduce the distance between the two infrared windows to 5–20 cm and position them so they are pointing towards one another. Start the transfer of the results again.
- Another device with an infrared source turned on or a strong light source is too close to one of the two infrared windows.
  Remove the device or light source and start the transfer of the results again.
- There is some object, for example, blocking communication between the two infrared windows.
  Remove the object and start the transfer of the results again.
- An error occurred at the receiving end.
  Please read the relevant instructions for use.

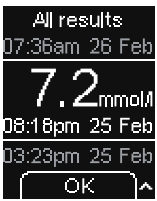
5.4 Setting the display format for viewing saved results

There are two different formats available for displaying the saved results *(Memory* menu – *All results)*: *Single value* and *List*.

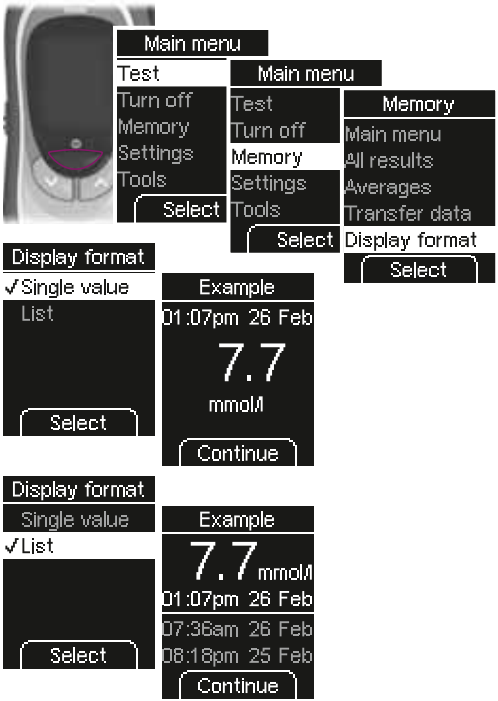
Display format *Single value*

Display format *Single value* (default setting):
In this format, just one result is displayed on the display. The time and date on which the result was obtained are displayed above the result (in this case 7.2 mmol/l).

Display format *List*



Display format *List:*
In this format, three results are displayed on the display. The selected value is between the two horizontal lines. This is the only actual result displayed. The time and date are displayed below the result. For the other two results, only the time and date are displayed. The more recent results are above the selected result, the older results below.



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▽ △ to select *Memory*,
→ press ⌓ to open *Memory*,
→ use ▽ △ to select *Display format*,
→ press ⌓ to open *Display format*.

2 Use ▽ △ to select the desired display format.

3 Press ⌓ *(Select)*.

An example of the display format you selected is displayed.

4 Press the ⌓ *(Continue)*.

or

The meter will then display the display format you just set.

5 Press *(OK)*.

The meter returns to the *Memory* menu.

or

If no results have been saved, X will be displayed instead of the result and dashes instead of the time and date.

6 Acoustic mode

The procedure for turning on the acoustic mode is described in Chapter 4.4.
When the acoustic mode is turned on, the meter guides you through the blood glucose test using beeps and announces the result as a series of beeps. The meter beeps additionally when the batteries are almost empty, the test cassette is empty or an error message is displayed. Saved results are not announced acoustically.

An intimate knowledge of how results are announced as beeps and how to distinguish results from other beeps is crucial to reliably recognizing the result.

The sections below explain the beeps in detail. In addition, training software (the BeepLearn program) to help you interpret results announced in the form of beeps is available on CD from the Accu-Chek Customer Careline.

Visually impaired people should only use the acoustic mode if they have familiarized themselves fully with the acoustic mode with the assistance of a sighted person and have demonstrated that they are able to understand results correctly without exception using the acoustic mode. The acoustic mode should always be used with great care. Otherwise there is a risk that the results will be misinterpreted by the person performing the test. An incorrect insulin dose resulting from a misinterpreted result can cause considerable health damage and can even be fatal. Especially if unexpected and abnormal blood glucose values are obtained using the acoustic mode, the result must be checked by repeating the test together with a sighted person.

Visually impaired people should not test their blood glucose without assistance from a sighted person.

The meter must be regularly checked by a sighted person for outwardly visible contamination.

There are two types of beep tones, differing in pitch. Warnings have a higher pitch (Tone 2, represented below as ▬) than the other beep tones (Tone 1, represented below as ▬). The following table shows which tone sounds for which event.

Tone 1: ▬

Turning on	Chapter 6.1
Prompt to apply blood	Chapter 6.2
Start of test	Chapter 6.2
Announcement of the result	Chapter 6.3

Tone 2: ▬ (warning)

Signal that results are about to be announced	Chapter 6.3
Announcement of an error message	Chapter 6.2, 6.4
Notification that the batteries are almost empty	Chapter 6.4
Notification that the cassette is empty	Chapter 6.4

6.1 Beep tone when turning on

When the acoustic mode is turned on, you hear a beep (▬) when you turn the meter on.

This is irrespective of how you turn on the meter:

- by opening the tip cover to perform a test (see Chapter 3.2)
- using the On/Off button (see Chapter 2.2)
- using the ▽ button to view saved results (see Chapter 5.1)
- using the ▽ and △ buttons to transfer data (see Chapter 5.3)

6.2 Beep tones during a test

After the power-on beep, you will hear the following while you test

- a beep when you can apply blood or control solution,
- a beep when the test starts,
- the result which is composed of different beeps (see Chapter 6.3),
- several beeps if the meter displays an error message (see Chapter 6.4).

6.3 Announcement of the result after a test

In the acoustic mode, whenever the meter displays a result following a blood glucose test, it also announces the result as a series of beeps. The result is not treated as an entity, but is broken down into individual digits.

Example:

- The result 7.6 mmol/l is announced as 0 – 7 – decimal point – 6.

Each digit is represented by the corresponding number of beeps, e.g. 4 beeps for the number 4 (▬ ▬ ▬ ▬). Zero is represented by a long beep (▬▬).

Results which are lower than 0.6 mmol/l and are displayed as LO are announced acoustically as 0 – 0 – decimal point – 0.

Results which are higher than 33.3 mmol/l and are displayed as HI are announced acoustically as 9 – 9 – decimal point – 9.

The result is announced three times in succession. Each announcement is preceded by 2 short beeps (▬ ▬). Altogether, therefore, you hear: ▬ ▬ result ▬ ▬ result ▬ ▬ result.

Symbols, such as ⇳ or 🌡, which are displayed together with the result are not announced acoustically.

If you turn off the meter using the On/Off button ⏻ while the result is being announced acoustically, the announcement will be interrupted and 2 short beeps will sound four times in succession (▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬).

First the tens are announced, then the units, then the decimal point and finally the tenths. There is a short pause between each group of beeps. The tens are always announced, even when the result is below 10. The tens in this case are represented by 1 long beep, signifying zero. The decimal point is represented by 1 very short beep (▬).

- 13.8 mmol/l:
  1 beep – pause – 3 beeps – pause – 1 very short beep – pause – 8 beeps
  =
- 4.0 mmol/l:
  1 long beep (for 0 tens) – pause – 4 beeps – pause – 1 very short beep – pause – 1 long beep
  =

6.4 Announcements of warnings and error messages

When the batteries will soon be empty or the last test area on the cassette has been used, the meter issues an acoustic warning. This consists of two short beeps sounded three times in succession (– – – – – –).

The warning is given at different times.

- Batteries almost empty:
  The acoustic warning sounds after you have turned the meter on, together with the corresponding message on the display (see Chapter 14).
- You have used the last test area on the test cassette:
  The acoustic warning sounds when the number of available tests is displayed as zero on turning off the meter.

If error messages appear on the display (see Chapter 16.4), these are announced by two short beeps sounded four times in succession (– – – – – – – –). This sequence is sounded only once and is not repeated. The same sequence of beeps is sounded for all error messages, i.e. they are not differentiated acoustically.

7 Checking the meter

You can check whether the meter delivers correct results. To perform this control test, a glucose control solution is applied to the test area instead of blood. At the end of the test, the meter automatically checks whether the result obtained with glucose control solution is correct and informs you of the result.

Always perform a control test using Accu-Chek Mobile control solutions:

- after you have inserted a new test cassette,
- after you have changed the batteries,
- after you have cleaned the cassette and the inside of the meter,
- if you are in doubt about a result.

Please ask your Accu-Chek Customer Careline where you can obtain the control solutions.

Different control solutions are sold in different countries. The control solutions have different colored labels (red, blue or white). At the end of the control test, the meter asks you to enter the color of the label on the control solution you have used (see Chapter 7.2). The meter offers you a choice of all three colors, even if you only have one or two control solution(s) to choose from.

Store the control solution out of the reach of children. There is a danger of choking if the applicator or the cap are swallowed.

The control solution must not be drunk. It contains substances which could be harmful to health.

Visually impaired people should not carry out a control test without assistance from a sighted person.

7.1 Preparing for a control test

For a control test you need:

- the meter with inserted test cassette,
- an unopened applicator of Accu-Chek Mobile control solution; the solution in each applicator is for one application only.

A control test in its main steps is the same as a normal test except that you apply control solution to the test area instead of blood.

Please read the package insert provided with the control solutions.

7.2 Performing a control test

Start as for a blood glucose test: Either open the tip cover or select *Test* in the *Main menu*.

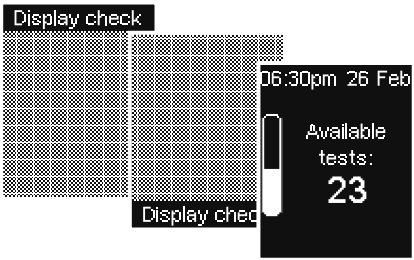
The following description assumes that you start the test by opening the tip cover.

1 Place your finger on the corrugated area on the tip cover and push in the direction of the arrow as far as it will go.

After overcoming a slight resistance, the tip cover clicks into place.

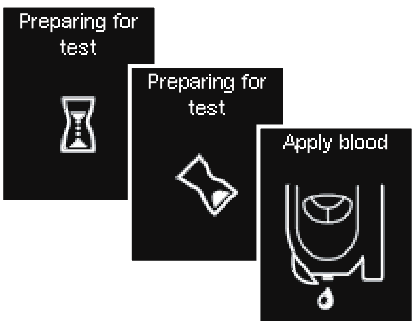
Be careful not to touch the tape when doing this as this could damage it.

If the meter was turned off, it now turns on.



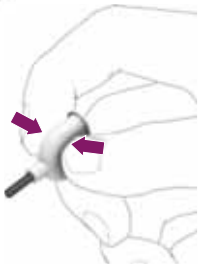
A beep will sound (if *Beep tones* is turned on) and the display check will be displayed, followed by the number of available tests.

2 Check that there are no irregularities in the checkerboard pattern.



Then the meter advances a test area to the tip of the cassette.

Shortly after the test area has been advanced to the tip of the cassette, the prompt *Apply blood* will appear and a beep will sound (if *Beep tones* is turned on). The prompt also applies to control solution.



3 Twist the cap off the applicator. Be careful not to squeeze the applicator too hard while doing this so as to not lose any control solution.

4 Hold the applicator at a slight angle with the brush pointing downwards.

5 Squeeze the applicator gently until you see a small drop appear at the end of the brush.

6 Then stop squeezing.

The drop will then be drawn back into the brush. The brush is now ready to use.

You can hold the meter in your hand or lay it down while you apply control solution to the test area.

Do not hold the meter with the test area pointing upwards. If you hold the meter with the test area pointing upwards, control solution could enter the meter and soil it.

7 Apply the control solution to the centre of the test area at the tip of the cassette using the tip of the brush.

As soon as control solution touches the test area it is drawn up.

8 Take the brush away from the test area as soon as *Test in progress* and the hourglass symbol appear on the display.

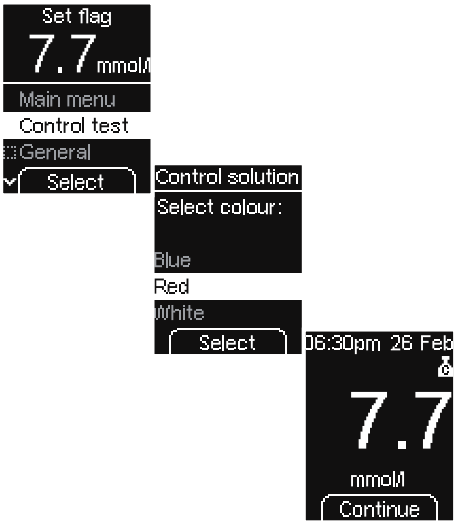
The test area has then drawn up enough control solution and a beep sounds (if *Beep tones* is turned on). The hourglass symbol indicates that the test is in progress.

Testing is complete after approx. 5 seconds and the result appears on the display.

The meter cannot distinguish between blood and control solution. If you have set a target range and the result obtained with control solution is outside this range, the symbol ⇕ will be displayed together with the result. The symbol will be deleted automatically when you flag the result as a control test.

To distinguish the control test later from blood glucose results, you need to flag it as a control test.

9 Press ◡ *(Set flag)*.



10 Use ▼ ▲ to select *Control test*.

11 Press ⌒ *(Select)*.

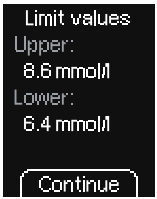
The meter then prompts you to enter the color of the applicator label. Entering the correct color is important so that the meter can check whether the result is correct.

12 Use ▼ ▲ to select the color.

13 Press ⌒ *(Select)*.

The result is then displayed again, this time with the flag *Control test* (symbol 🧪).

14 Press ⌒ *(Continue)*.



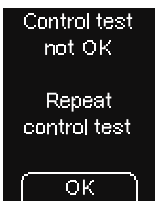
Values are only examples

The meter displays the upper and lower limits of the concentration range. The concentration range displayed depends on the color of control solution selected.

15 Press *(Continue)*.

The meter automatically checks whether the result is within the concentration range displayed.

or



If the result is within the concentration range displayed, *Control test OK* is displayed.

If the result is not within the concentration range displayed, *Control test not OK* *Repeat control test* will be displayed (see Chapter “Control test not OK – possible sources of error”).

16 Press *(OK)*.

The meter returns to the *Main menu*.

17 Turn off the meter with ⏻ or via *Turn off*.

18 Close the tip cover.

19 Dispose of the applicator in your household waste.

	Accu-Chek® Mobile Control mmol/l
1	1,9 - 4,2
2	6,4 - 8,6

Unit of measurement

Values are only examples

Control solution used

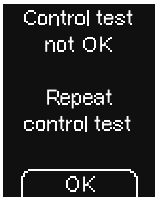
You can also check yourself whether the result is within the right concentration range.

To do this, compare the result with the concentration table on the test cassette box.

The result must be within the printed concentration range.

Make sure you compare the result with the concentration range that corresponds to the control solution you used (1 or 2).

Control test not OK – possible sources of error



If *Control test not OK* *Repeat control test* is displayed, the result obtained is not within the concentration range displayed. Check the points listed on the next page. If your answer is different from the answer given, make the respective corrections and repeat the test. If you have taken all of these points into account and *Control test not OK* is still displayed, please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

If *Control test not OK* *Repeat control test* is displayed, it is no longer certain that the meter and test cassette are functioning properly. Blood glucose tests may then deliver incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce serious adverse health effects.

Did you perform the control test according to the Reference Manual?	yes
Did you wait for the application prompt to be displayed before applying control solution?	yes
Did you apply the control solution immediately after opening the applicator?	yes
Did you enter the correct color?	yes
Did you perform the test within the correct temperature range (10–40 °C)?	yes
Has the expiry date for the control solution been reached (see label on the bottom of the applicator next to the symbol)?	no
Did you observe the proper storage conditions for the meter, test cassette and control solutions (see Chapter 15 and the test cassette and control solution package inserts)?	yes

If your meter has been dropped, that can also lead to control test results which are not within the concentration range displayed and for which *Control test not OK* is displayed. In this case, you should also call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

8 *Tools* menu

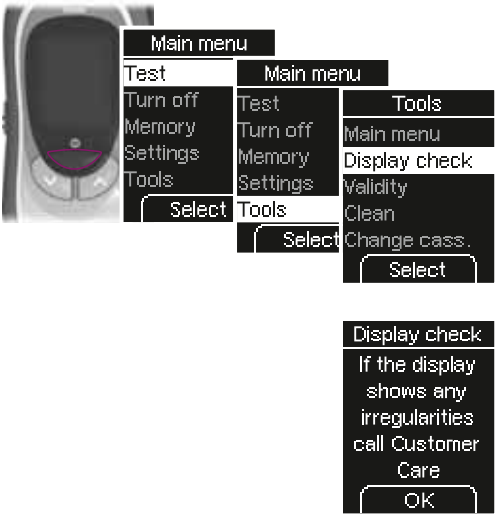
The *Tools* menu on the one hand offers you some extra means of checking the meter. On the other hand, you must also use this menu to prepare for cleaning the meter and changing a test cassette that has not been used up.

The following options are available in the *Tools* menu:

- *Main menu:* takes you to the Main menu
- *Display check:* perform a separate display check (see Chapter 9)
- *Validity:* displays the validity of the test cassette (see Chapter 10)
- *Clean:* prepare the meter for cleaning (see Chapter 11)
- *Change cass.:* prepare the meter for removing a test cassette which still has unused test areas (see Chapter 12)

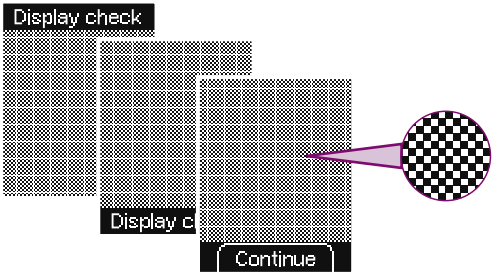
9 Performing a display check

If you wish to check whether the display is working properly, you can also do this, in addition to after turning on the meter, via the display check in the *Tools* menu. In this case, the display check is displayed not only for about 2 seconds, but until you cancel it (but not longer than 1 minute).

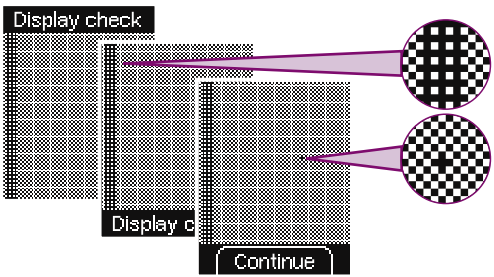


1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▽ △ to select *Tools*,
→ press ⌒ to open *Tools*,
→ use ▽ △ to select *Display check*,
→ press ⌒ to open *Display check*.

2 Press ⌒ *(OK)*.



Display check without irregularities



Display check with irregularities (examples)

3 Check whether there are any irregularities in the checkerboard pattern.

If there are irregularities in the checkerboard pattern, results might not be displayed correctly. In this case, call the Accu-Chek Customer Care-line free on 0800 701000 (UK) or 1800 709600 (Ireland).

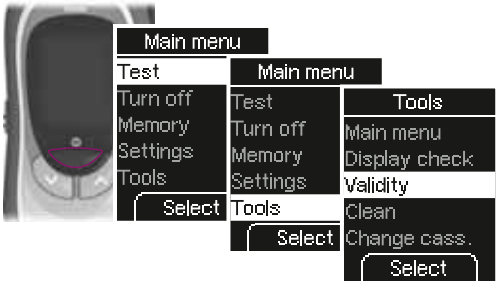
4 Press the button *(Continue)*.

The meter returns to the *Tools* menu.

If you do not press the button, the meter displays the display check for about 1 minute. Then it displays the number of available tests and turns off automatically.

10 Viewing the validity of the test cassette

You can check how long the test cassette in the meter is valid as follows:



1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Tools*,
→ press ⌒ to open *Tools*,
→ use ▼ ▲ to select *Validity*,
→ press ⌒ to open *Validity.*

The validity is displayed.

2 Press ⌒ *(Continue)*.

The meter returns to the *Tools* menu.

11 Cleaning the meter and finger pricker

11.1 Cleaning the meter

The mode of operation of the meter with the test cassette means that the meter will not normally come into contact with blood or control solution. Regular cleaning is therefore not necessary. In the event of the meter becoming soiled through improper use, cleaning it may become necessary.

Use **only** cold water or 70 % ethanol for cleaning. Any other cleaning agents may damage the meter or impair its measuring function.
Use a lightly moistened cloth or a lightly moistened cotton swab. Do not spray anything onto the meter and do not immerse it in the cleaning fluid. Doing so may damage its internal components and stop it from working properly.

The outside

If the casing of the meter or the display is visibly soiled:

Wipe these with a cloth lightly moistened with cold water or 70 % ethanol.

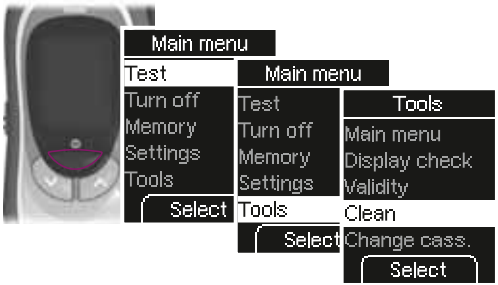
The inside

You only need to clean the inside of the meter if

- the area around the tip of the cassette is visibly soiled,
- the error message E-1 with the text “Cassette defective Insert new cassette” is displayed; the error message might be caused by a fault in advancing the test area to the tip of the cassette,
- the error message E-4 with the text “See Reference Manual” is displayed; the error message might be caused by fluff, crumbs or the like inside the tip of the cassette.

To enable you to clean the inside of the meter, you have to open *Clean* in the *Tools* menu and then remove the test cassette.

If the error message E-4 was displayed, a test area is lost when you later reinsert the test cassette.



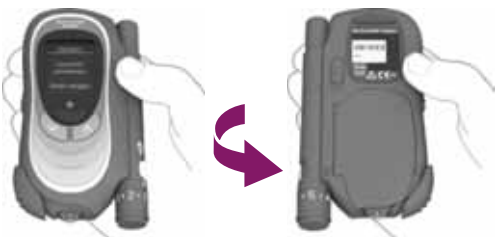
1 Turn on the meter with ⏻,
→ wait for the *Main menu*,
→ use ▼ ▲ to select *Tools*,
→ press ▬ to open *Tools*,
→ use ▼ ▲ to select *Clean*,
→ press ▬ to open *Clean*.

The meter now prompts you to open the tip cover.

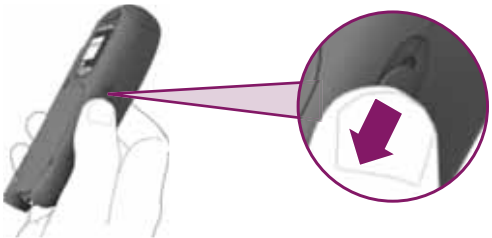
If you do not want to clean the meter after all, you can abort the preparation using the ▬ button *(Cancel)*.

2 Place your finger on the corrugated area on the tip cover and push it in the direction of the arrow as far as it will go.

The meter then prompts you to remove the test cassette. About 2 seconds later, it turns off automatically.



3 Turn the meter over.



4 Push the release button for the cassette compartment cover in the direction of the arrow. The cover springs open.

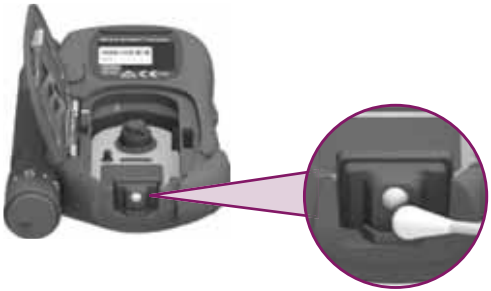
5 Open the cassette compartment cover all the way. You have to overcome a resistance just before it is fully opened.

The cassette compartment cover is fully opened when it is at an angle of slightly more than ninety degrees – as shown in the illustration.

6 Remove the cassette from the cassette compartment.

7 Check whether you can see any fluff, crumbs or the like inside the tip of the cassette.

8 If so, remove these carefully.



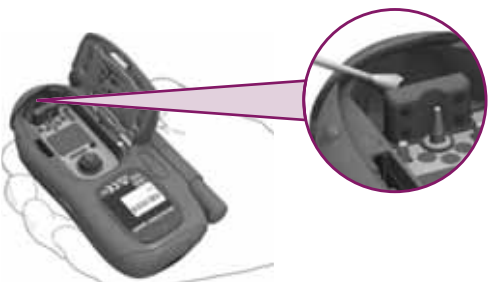
If the measuring optics are visibly soiled, clean the inside of the meter as follows:

9 Carefully wipe the measuring optics and the front opening of the meter with a lightly moistened cloth or cotton swab.

10 Carefully wipe the sensors on the inside wall of the meter with a lightly moistened cloth or cotton swab.

Make sure that no liquid enters the meter. Avoid scratching the measuring optics and the sensors. Scratches could interfere with tests or the advancing of test areas to the tip of the cassette.

11 Leave the cassette compartment cover open and close the tip cover.



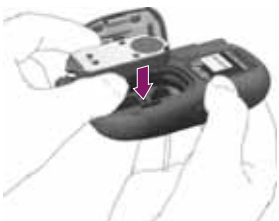
12 Carefully wipe the inside of the tip cover with a lightly moistened cloth or cotton swab.

13 Remove any fluff or lint that may remain.

14 Allow the meter time to dry thoroughly.

15 Open the tip cover again.

The meter now turns on and displays error message E-2. The error message at this point is not relevant since you had to remove the cassette to clean the meter. You can ignore the message. The meter turns off again automatically. Simply continue with step 16.



16 Insert the cassette in the meter again with the silver side facing upwards.

17 Close the cassette compartment cover and press it closed. You must hear an audible CLICK.

18 Close the tip cover.

11.2 Cleaning the finger pricker

To ensure proper functioning of your finger pricker, you should clean it regularly and if there is any blood on it. If you want to clean the finger pricker, first detach it from the meter (see Chapter “Undocking and docking the finger pricker”).

Clean the outside of the finger pricker only. Wipe it once a week with a cloth moistened with 70 % ethanol or 70 % isopropanol (available from your pharmacy).

Also clean the inside of the cap with a cotton swab moistened with one of the two cleaning fluids.

Allow the finger pricker and cap time to dry thoroughly.

Never dip the finger pricker in cleaning fluid. Doing so may damage its internal components and stop it from working properly.

Use only 70 % ethanol or 70 % isopropanol to clean the finger pricker. Other cleaning agents may attack the plastic and stop the finger pricker from operating properly.

12 Replacing the test cassette

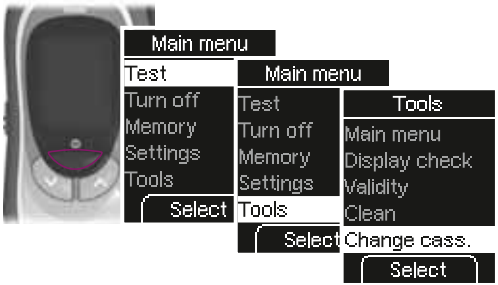
If you want to replace an empty test cassette or an expired test cassette, please continue reading in Chapter 12.2.

If you want to remove a partly used test cassette which still has unused test areas, you must first perform the preliminary steps described in Chapter 12.1.

You can reinsert a partly used cassette into the meter at a later date. In the mean time, store this cassette in a dry place protected from light.

If you reinsert the partly used cassette into the meter and there was another cassette in the meter before this, the partly used cassette loses a test area. If you reinsert the partly used test cassette into the meter immediately, it does not lose a test area.

12.1 Preparing cassette replacement



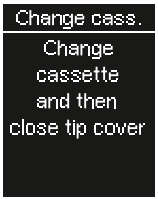
Turn on the meter with ⏻,
➔ wait for the *Main menu*,
➔ use ▽ △ to select *Tools*,
➔ press ⌒ to open *Tools*,
➔ use ▽ △ to select *Change cass.*,
➔ press ⌒ to open *Change cass.*

The meter now prompts you to open the tip cover.

If you do not want to change the cassette after all, you can abort the preparation using the ⌒ button *(Cancel)*.

12.2 Replacing the cassette

1 Place your finger on the corrugated area on the tip cover and push it in the direction of the arrow as far as it will go.

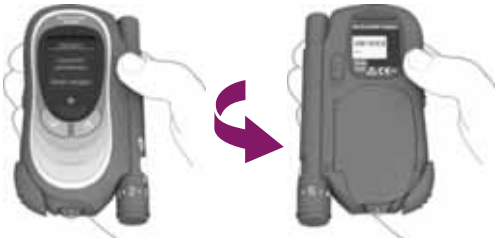


If you have prepared for the cassette **replacement via *Change cass.*** the meter prompts you to replace the test cassette. Shortly after this, it turns off automatically.

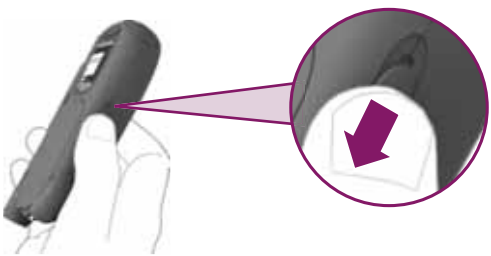
or

or

If the **cassette** in the meter is **empty** or **defective** or has **expired**, the appropriate message or error message E-1 appears after the display check and the number of available tests (see also Chapter 16.2 and 16.4). Shortly after this, the meter turns off automatically.



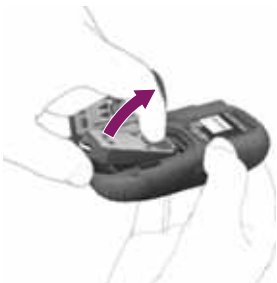
2 Turn the meter over.



3 Push the release button for the cassette compartment cover in the direction of the arrow. The cover springs open.

4 Open the cassette compartment cover all the way. You have to overcome a resistance just before it is fully opened.

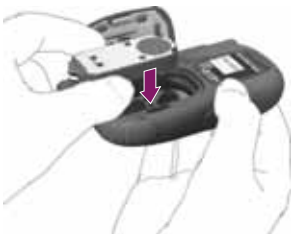
The cassette compartment cover is fully opened when it is at an angle of slightly more than ninety degrees – as shown in the illustration.



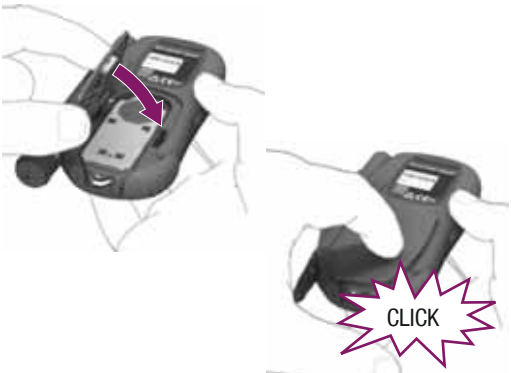
5 Remove the cassette from the cassette compartment.

Used test cassettes can be disposed of in household waste.

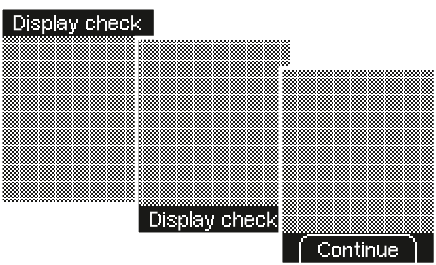
6 Remove a new cassette from the packaging.



7 Insert the cassette in the meter with the silver side facing upwards.

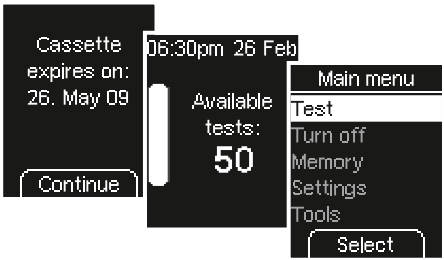


8 Close the cassette compartment cover and press it closed. You must hear an audible CLICK.



When you have closed the cassette compartment cover, the meter turns on again and runs the display check.

9 Press the button *(Continue)*.



The validity of the cassette is displayed.

10 Press the button *(Continue)*.

The meter displays the number of available tests and then opens the Main menu.

11 Close the tip cover.

If the test cassette you removed still has unused tests and has not yet expired, you can reinsert the cassette into the meter at a later date. The meter recognizes the cassette, the number of available tests and the validity.

13 Viewing the number of available tests

You can view the number of tests still available on the inserted cassette by one press of a button.

With the meter off:

Press and hold the ⌃ button until the meter turns on (longer than 2 seconds).

The number of tests available on the cassette will be displayed. The meter turns off again automatically a short time later.

14 Changing the batteries

This message appears when the batteries are almost empty. It appears every time you turn the meter off if you have not yet changed the batteries. The first time the message appears, you can still perform about 50 tests.

However, we recommend that you replace the batteries as soon as possible. By then the batteries will have been heavily drained and changeable conditions (e.g. cold outside temperatures) can affect their performance even further.

You need 2 alkaline-manganese or high-energy batteries type AAA, LR 03, AM4 or micro (1.5 V). Always replace both batteries at the same time.

Do not use rechargeable batteries as these have a considerably shorter life than normal batteries.

With a new set of batteries, you can perform at least 500 tests or test for about 1 year.

Results and settings remain saved in the meter while you change the batteries or if you store the meter without batteries.

The meter has an inbuilt back-up battery. This provides the power when there are no batteries in inserted. The back-up battery lasts about 5 years. It cannot be replaced if it is empty. An empty back-up battery has no influence on the functioning of the meter.

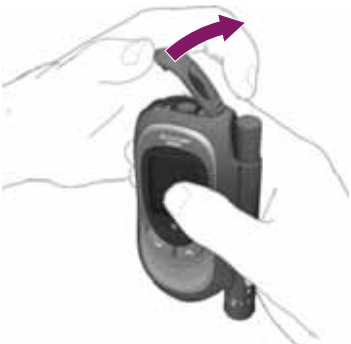
If the back-up battery is empty, you still have 10 minutes to change the batteries. Only if more time than this elapses does the meter forget the time and date and dashes appear on the display instead of the time and date. In this case, set the time and date again.

⚠ Never throw batteries into a fire. This is dangerous, because they may explode.

ⓘ Please dispose of used batteries in an environmentally friendly way at an apprpopriate collection depot. For information about correct disposal, please contact your local council or authority.

ⓘ Remove the batteries if you will not be using your meter for any length of time. The time and date still remain saved in the meter.

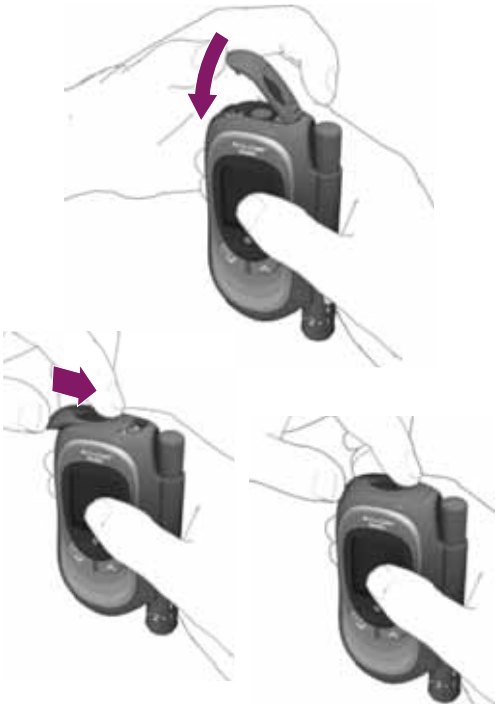
1 Push the battery compartment cover in the direction of the arrow as far as it will go to unlock it. You will have to overcome a slight resistance. The cover is properly unlocked when it slides over this resistance with a CLICK.



2 Raise the battery compartment cover as illustrated.

3 Turn the meter so that the battery compartment faces downwards. The batteries fall out.

4 Insert two new batteries in the battery compartment. Pay attention to the symbols + and − in the battery compartment. The corresponding end of the battery must be facing upwards.



5 Close the battery compartment cover again.

6 Push the battery compartment cover in the direction of the arrow as far as it will go to lock it. It locks into place with a CLICK.

15 Testing and storage conditions

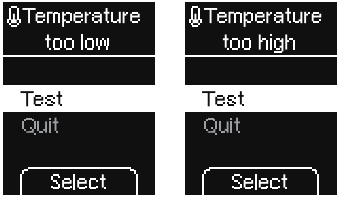
So that the meter and finger pricker work reliably and you obtain accurate results, make sure that the conditions listed on the following pages are met.

15.1 Temperature

- **Without** batteries and **without** a test cassette, the meter should be stored at between -25 and +70 °C.
- **With** batteries and **without** a test cassette, the meter should be stored at between -10 and +50 °C.

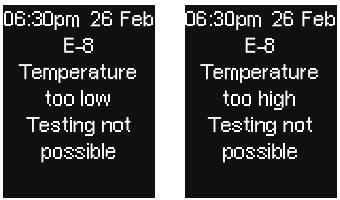
  At temperatures above +50 °C, the batteries could leak and damage the meter.

  At temperatures below -10 °C, the batteries do not have enough power to keep the internal clock functioning.
- **With** batteries and **with** a test cassette, the meter should be stored at between +2 and +30 °C.
- For blood glucose tests and control tests, the permitted temperature range is between +10 and +40 °C.
- If the temperature is between +8 and +10 °C or between +40 and +42 °C, the meter will still allow you to perform a test. However, the following warning will appear (see also Chapter 16.2).



Do not use blood glucose results obtained despite this warning as a basis for making therapeutic decisions. These results may be incorrect. Incorrect results can cause the wrong therapeutic decision to be taken and so produce serious adverse health effects.

- Tests cannot be performed at temperatures below +8 and above +42 °C. In this event, the following error message appears:



⚠ Never try to speed up the cooling or warming of your meter, e.g. by placing it in the refrigerator or on a radiator. Doing so can damage the meter and cause it to deliver incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce serious adverse health effects.

- Do not store the finger pricker in a primed state and do not store it for any length of time in a place where the temperature is very low or high, e.g. in a hot car. This can cause parts of the finger pricker to become warped, so impairing its operation.

15.2 Humidity

Only perform blood glucose tests at a relative humidity between 15 and 85 %.

Store the meter in a place with a relative humidity between 15 and 93 %.

⚠ Sudden changes in temperature can cause condensation to form in or on the meter. If this happens, do not turn the meter on. Make sure that it returns to ambient temperature slowly. Never store the meter in a room that is likely to harbour condensation (e.g. bathroom).

15.3 Light conditions

Displayed text, numbers and symbols appear yellow. Bright light shining on the display may make them difficult to read. Shield the meter if necessary, with your body, for example.

Keep the meter away from very strong light sources (e.g. direct sunlight, spot lights). These may interfere with the proper functioning of the meter and lead to error messages.

15.4 Local sources of interference

Strong electromagnetic fields may interfere with the proper operation of the meter. Do not use the meter close to sources of strong electro-magnetic radiation.

To avoid electrostatic discharge, do not use the meter in a very dry environment, particularly one in which synthetic materials are present.

16 Symbols, messages, problems and error messages

16.1 Symbols

The meter presents most of the information as text. In addition, results are displayed – both after a test and in the memory – together with further information in the form of symbols.

The batteries are almost empty.

This is the result of a control test.

The temperature during the test was outside the permitted range of +10 to +40 °C. Despite a warning to this effect you decided to go ahead with the test.

You have turned on a target range. The result is either below the lower limit or above the upper limit of the target range set.

LO
In place of a result: The result is lower than 0.6 mmol/l.

LO may indicate that your blood glucose is very low (possibly a severe hypoglycemia). Follow the relevant instructions given by your doctor immediately and repeat the test.

HI
In place of a result: The result is higher than 33.3 mmol/l. Repeat the test.

You have flagged the result with the flag *General*.

You have flagged the result with the flag *Before food*.

You have flagged the result with the flag *After food*.

16.2 Messages

Cassette empty: This message appears if you start a test and all test areas in the cassette have been used.

Insert a new test cassette in the meter.

Validity of the cassette: This message appears at the start of a test if the test cassette is only valid for 10 more days. The message is repeated when the cassette is only valid for 5, 2 and 1 more day(s).

Press the button *(Continue)* to start a test.

Cassette expired: This message appears if the cassette has been in the meter for longer than 3 months or is expired.

Insert a new test cassette in the meter.

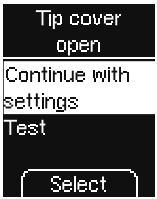
Batteries almost empty: This message appears when the batteries are almost empty. It appears every time you turn the meter off if you have not yet changed the batteries. The first time the message appears, you can still perform about 50 tests.

Change the batteries as soon as possible.

Close tip cover: This prompt appears if the tip cover is open and needs to be closed:

- when you turn off the meter after a test
- when you close the cassette compartment cover (after changing the cassette or cleaning)

Close the tip cover.



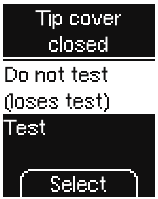
Tip cover open: This message appears if you are in the process of changing a setting (e.g. the date) or entering a new setting (e.g. a reminder) and open the tip cover.

Close the tip cover again if you wish to continue with the setting.

or

Use ▼ ▲ to select whether you wish to *Continue with settings* or *Test*.

- *Continue with settings:* in this case, the meter prompts you to close the tip cover.
- *Test:* in this case, the setting procedure will be interrupted (any changes you have already made will be lost) and a test area will be advanced.



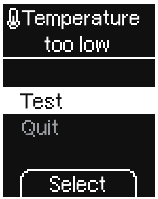
Tip cover closed: This message appears if you close the tip cover after the meter has advanced a test area.

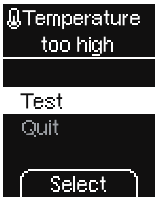
Open the tip cover again if you wish to continue with the test.

or

Use ▼ ▲ to select *Do not test* or *Test*.

- *Do not test:* in this case, the meter returns to the Main menu. You can no longer use the test area, because the meter will advance the tape again. This reduces the number of available tests.
- *Test:* in this case, the meter prompts you to open the tip cover.





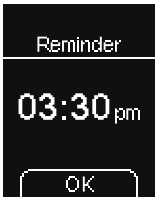
Temperature too low / too high: This message appears at the start of a test if the ambient temperature or the temperature of the meter is between +8 and +10 °C or between +40 and +42 °C.

Use ▼ ▲, to select whether you wish to *Test* or *Quit*.

- *Test:* in this case, the meter advances a test area.
- *Quit:* in this case, the meter returns to the Main menu. Close the tip cover.

If you decide to perform the test in spite of the warning, the result will be flagged and saved with the symbol 🌡.

⚠ Do not use blood glucose results obtained despite this warning as a basis for making therapeutic decisions. These results may be incorrect. Incorrect results can cause the wrong therapeutic decision to be taken and so produce serious adverse health effects. Move to a place where the temperature is between +10 and +40 °C and wait for the temperature of the meter to adjust to this temperature.



Reminder: If you have set reminders, this message appears at the set time. If you have also turned on *Reminders* in the *Settings/Tones* menu, beeps will also sound.

To turn off the reminder:

Press any button.

16.3 Problems

The meter will not turn on.

- The batteries are empty or none are inserted.

  Insert new batteries.

- You have inserted the batteries the wrong way round.

  Remove the batteries and reinsert them as shown in the battery compartment.

- The ambient temperature is low and the batteries are almost empty.

  Move to a place where the temperature is between +10 and +40 °C and wait for the temperature of the meter to adjust to this temperature. Insert new batteries.

- Condensation has affected the electronics.

  Allow the meter time to dry slowly.

- The meter is defective.

  Please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

The meter only displays dashes instead of the time and date.

The meter has forgotten the time and date.

You have changed the batteries or stored the meter without batteries and the built-in back-up battery is empty. The back-up battery normally ensures that the meter remembers the time and date even if no batteries are inserted.

Reset the time and date.

Results which are saved without the time and date cannot be analysed after transfer to a computer or only in a limited way.

If the back-up battery is empty you still have 10 minutes to change the batteries before the meter forgets the time and date. If more than 10 minutes elapse, only dashes are displayed instead of the time and date.

The meter is turned on, but the display remains blank.

The display is defective.

Please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

16.4 Error messages

The following pages describe all error messages together with the cause and how they can be remedied.

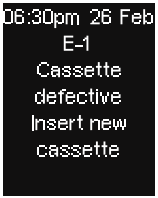
If an error message is displayed, turn the meter off:

Press and hold the On/Off button until the bar in the display is filled (at least 2 seconds).

If error messages occur frequently, please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

If your meter has been dropped, that can also lead to error messages. In this case, you should also call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

E-1



- The test cassette or the meter may be defective.

  Remove the cassette from the meter and reinsert it.

- If the error message reappears:

  Clean the meter and the test cassette.

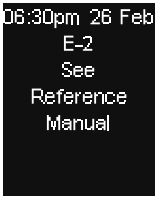
- If the error message reappears:

  Insert a new test cassette in the meter.

- If the error message still appears, the meter is defective.

  Please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

E-2



- There is no test cassette in the meter.

  Insert a new test cassette.

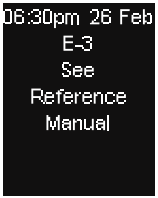
- The RFID sensor in the meter is defective.

  Please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

- The RFID chip on the cassette is damaged or missing. The cassette cannot be used.

  Insert a new test cassette.

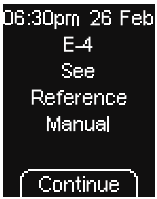
E-3



A meter error occurred.
If the error message reappears after turning on the meter:

Please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

E-4



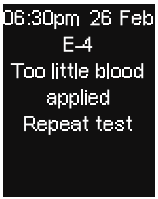
- Fluff, crumbs or the like are inside the tip of the cassette.

  Remove these. To do this, follow the instructions in Chapter 11.1.

  You can go directly from here to the *Clean* menu without having to turn the meter off first. To do this, press the button *(Continue)*.

- The cassette is not properly inserted into the meter.

  Remove the cassette and reinsert it.



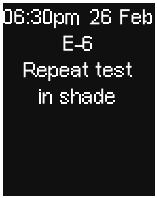
- The test area has drawn up too little blood or control solution.

  Repeat the test with a larger amount of blood or control solution.

- You did not apply the blood drop or the control solution to the centre of the test area.

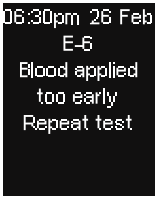
  Repeat the test. Apply the blood drop or the control solution exactly to the centre of the test area at the tip of the cassette.

E-6



During the test, bright light, e.g. sunlight, fell on the meter and has interfered with the test.

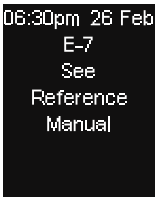
Move into the shade or shield the meter with your body, for example. Repeat the test.



You applied blood or control solution to the test area too soon, i.e. before the prompt *Apply blood* was displayed.

Repeat the test. Do not apply blood or control solution to the test area until the prompt *Apply blood* is displayed.

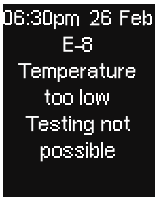
E-7

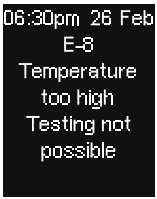


A meter error occurred.
If the error message reappears after turning on the meter:

Please call the Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland).

E-8





The ambient temperature or the temperature of the meter is too low (under +8 °C) or too high (above +42 °C) for a test.

Move to a place where the temperature is between +10 and +40 °C and wait for the temperature of the meter to adjust to this temperature.

E-9

If the batteries are so low that no more tests can be performed, this message will appear for 3 seconds. Then the meter turns off.

Insert two new batteries.

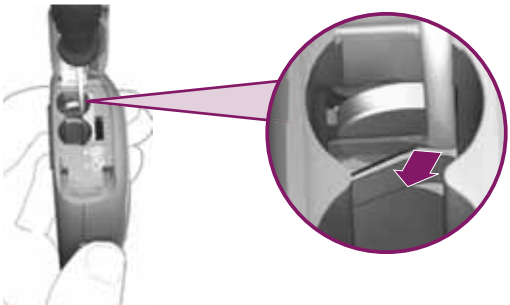
17 Disposing of the meter

During blood glucose testing, the meter may come into contact with blood. Used meters therefore carry a risk of infection. Please dispose of your used meter, after removing the batteries, according to the regulations applicable in your country. Also remove the back-up battery (see next page).

For information about correct disposal, please contact your local council or authority.

The meter falls outside the scope of the European Directive 2002/96/EC (Directive on waste electrical and electronic equipment).

Please dispose of the batteries in an environmentally friendly way at an appropriate collection depot. For information about correct disposal, please contact your local council or authority.



Removing the back-up battery

Apart from the two batteries in the battery compartment, there is also a third battery in the side of the battery compartment, the back-up battery.

You must also remove this battery before disposing of the meter.

Remove the back-up battery as follows:

1 Use a small screwdriver or similar implement to break out the partition wall in front of the battery.

The battery then drops into the battery compartment.

2 Turn the meter over so that the back-up battery falls out.

18 Technical data

Meter type	Accu-Chek Mobile
Catalogue No./ Serial No.	See type plate on the back of the meter
Test principle	Determination of glucose in fresh capillary blood by reflectance photometry. When using different specimen material, please refer to the package insert that came with the Accu-Chek Mobile test cassette. Although you always apply whole blood to the test area, the blood glucose results displayed by your meter correspond to those in plasma. You will find information on how the system works, on the test principle and on reference methods in the Accu-Chek Mobile test cassette package insert.
Measuring range	0.6–33.3 mmol/l
Sample size	approx. 0.3 µl (1 µl (microlitre) = 1 thousandth of a millilitre)
Measuring time	approx. 5 seconds (depending on the concentration)
Power supply	2 alkaline-manganese or high energy batteries (1.5 V, type AAA, LR 03, AM 4 or micro), back-up battery: 3V lithium button cell type CR1025
Battery life	at least 500 tests or approx. 1 year (less if the brightness of the display is set to level 3 or the volume is set to level 4 or 5 or in acoustic mode due to the higher power consumption)
Automatic power-off	after 1 or 2 minute(s), depending on the operating status

Temperature	
during testing	+10 to +40 °C
during storage	
Meter without batteries and without test cassette:	-25 to +70 °C
” with batteries and without test cassette:	-10 to +50 °C
” with batteries and with test cassette:	+2 to +30 °C
Humidity	
during testing	15 to 85 % relative humidity
during storage	15 to 93 % relative humidity
Altitude	Sea level to 4000 m
Memory	500 results with time and date, averages for 7, 14 and 30 days
Dimensions	123 × 66 × 28 mm with finger pricker
Weight	approx. 150 g with finger pricker, batteries, test cassette and lancet drum
Display	OLED (Organic Light Emitting Diode) display
Interface	Infrared window
Safety class	III
LED/IRED	Class 1

Electromagnetic compatibility	This instrument meets the electromagnetic immunity requirements according to EN ISO 15197 Annex A. The chosen basis for the immunity tests (on electrostatic discharge) was basic standard IEC 61000-4-2. In addition, the instrument meets the electromagnetic emissions requirements according to EN 61326. Its electromagnetic emission is thus low. Interference with other electrically powered equipment is not to be anticipated.
Performance evaluation	The performance data for the Accu-Chek Mobile system (Accu-Chek Mobile meter with Accu-Chek Mobile test cassette) were determined using capillary blood from patients with diabetes (method comparison, accuracy), venous blood (repeatability) and control solutions (reproducibility). The system is calibrated with venous blood containing various levels of glucose. The reference values are obtained using the hexokinase method. The method comparison was conducted by comparing the results from the system with those of the hexokinase method with deproteination using an automatic analyzer. The hexokinase method is traceable to an NIST standard (traceability).

The Accu-Chek Mobile blood glucose monitoring system complies with the requirements of EN ISO 15197.

Roche Diagnostics hereby declares that the Accu-Chek Mobile blood glucose meter conforms with the basic requirements and other relevant regulations of Directive 1999/5/EC. The conformity declaration may be found at the following Internet address: http://mobile.accu-chek.com.

19 System components

The following components belong to the Accu-Chek Mobile meter:

- Accu-Chek Mobile test cassettes
  Use only these test cassettes when you test with the Accu-Chek Mobile meter.
- Accu-Chek Mobile control solutions
  Use only these control solutions when you perform control tests with the Accu-Chek Mobile meter and the Accu-Chek Mobile test cassettes.

The following components belong to the Accu-Chek FastClix Mobile finger pricker:

- Accu-Chek FastClix lancet drums
  Use only these lancet drums when you obtain blood with the Accu-Chek FastClix Mobile finger pricker.
- Accu-Chek FastClix Mobile AST cap
  If you wish to use blood from alternate sites (such as palm, forearm, upper arm, calf or thigh) for blood glucose testing, you will need a special AST cap (gray cap with transparent base) to obtain blood with the Accu-Chek FastClix Mobile finger pricker.

20 Patents

Accu-Chek Mobile meter

US 5,889,585; US 6,055,060; US 6,379,317

Accu-Chek FastClix Mobile finger pricker

EP 1 263 320; US 6,379,317; US 6,419,661; US 7,077,828; US 7,223,276; US 7,273,484; US 7,322,998; US Re. 35,803

21 Accu-Chek Customer Careline

21.1 Advice and troubleshooting

If you need advice on how to operate the Accu-Chek Mobile meter or the Accu-Chek FastClix Mobile finger pricker, if you seem to be obtaining implausible results, or if you suspect that the meter, test cassette, finger pricker or lancet drum might be defective, please contact your Accu-Chek Customer Careline free on 0800 701000 (UK) or 1800 709600 (Ireland). Do not attempt to repair or modify the meter or finger pricker yourself. Our staff will help solve any problems you might be experiencing with the meter, test cassette, finger pricker or lancet drum from Roche Diagnostics. The address of the Accu-Chek Customer Careline is listed in the next section.

21.2 Address

Roche Diagnostics Limited
Charles Avenue, Burgess Hill
West Sussex, RH15 9RY, **United Kingdom**
+44 (0) 1444 256000

Accu-Chek Customer Careline [1)]
UK Freephone number: 0800 701 000
ROI Freephone number: 1 800 709 600

[1)] **calls may be recorded for training purposes**

www.accu-chek.co.uk
www.accu-chek.ie

22 Alphabetical index

A

acoustic mode 100, 101, 159
- turning on, turning off 102

Accu-Chek Customer Careline 232
After food (flag) 78, 80
alternate sites 55
apple (symbol) 78, 142, 211
apple, bitten into (symbol) 78, 142, 211
AST cap 55
asterisk (symbol) 78, 211
available tests 31, 32
- viewing 201

averages 139

B

battery
- changing 202
- disposing 203, 226
- life 202, 228
- removing the protective strip 48
- symbol 77, 211
- type 202, 228

battery compartment 14, 205
beep tones 100
- announcement of results via ~ 162
- during testing 100
- turning off 102
- turning on 102
- with reminders 100

Before food (flag) 78, 80
blood
- applying to the test area 73
- too little applied 222
- volume 21, 228

blood glucose test 54
bottle (symbol) 78, 172, 211
brightness, display 178
button
- on/off 15, 26
- enter ~ 15, 26
- down 15, 28, 137
- up 15, 29, 201

C
checking, meter 165
cleaning
finger pricker 192
meter 182
concentration table 41, 175
control solution 165
disposing 174
validity 177
control test 83, 165
flag 78
flagging 83, 171
performing 167
sources of error 176
CSV file 151

D
data transfer 144
date, setting 95
display 15, 228
brightness, setting 128
symbols on the ~ 211
display check 30
performing 179
display format, saved results 134
setting 156
disposal
batteries 203, 226
meter 225
test cassette 197

E
electromagnetic compatibility 230
electromagnetic interference, sources of 209
enter button 15, 26
error messages 220
in acoustic mode 164
expiry date
control solution 177
test cassette 46

F
flagging, result 78
flags
After food 78, 80
Before food 78, 80
control test 78, 83, 171
general 78, 80

finger pricker
cleaning 192
components 17
docking 63
obtaining blood with the ~ 70
priming 71
undocking 62

G
general (flag) 78, 80

H
HI (display) 77, 84, 211
hourglass (symbol) 74
humidity 208, 229

I
infrared window 15, 144
intended use
finger pricker 3
meter 3

L
lancet drum 17, 57
changing 61
disposing 61
inserting 57
lancet, loading a new 60
light conditions 209
LO (display) 77, 84, 211

M
measuring conditions 207
measuring range 84, 228
measuring time 74, 228
memory 133
display format 134, 156
memory, results 133
menu
description 23
opening 34
overview 240

meter
checking 165
cleaning 182
disposing 226
overview 14
storing 207
turning off 32
after a test 75, 76
turning on 30
opening the memory 134
performing a test 65, 68
transferring results 144
multifunction button, finger pricker 17, 71, 72

N
number of available lancets 17, 60
number of available tests 31, 201

O
on/off button 15, 26
one-time reminder 115
overview
finger pricker components 17
menus 241
meter components 14
symbols 211

P
patents 232
penetration depth
indicator 17, 59
setting 9
performance evaluation 230
problems 218

R
release button
opening cassette compartment cover 16, 43, 196
undocking finger pricker 16, 62
reminder 104
beep tones for ~ 100
changing 109, 112
deleting 109, 113
editing 109
setting after a test 83
setting new ~ 106
turning off 109, 111
turning on 109, 111

result
averages 139
flagging 78
transferring 144
viewing in memory 134

S
settings
acoustic mode 100
beep tones 100
brightness 128
date 95
default settings 87
language 130
menu 90
overview 87
reminders 104
beep tones for ~ 100
target range 119
time 92
time format 98
tones 100
volume 126
sources of error
blood glucose test 85
control test 176
transferring results 155
sources of interference
electromagnetic 209
light 209
storage conditions 207
symbols 211
during testing 77
system components 231

T
target range 119
changing 122, 124
editing 122
setting 120
symbol 77, 119, 211
turning off 122, 123
turning on 122, 123
technical data 228
temperature 207, 229

test
performing 64
sources of error 85
test area 15
test cassette 16
changing 193
disposing 197
expiry date 46
inserting first ~ 41
use-by period 46
validity 46, 181, 212
test principle 228
tests (test areas) 20
display of available ~ 31, 32, 201
thermometer (symbol) 77, 211, 216
time format, selecting 98
time, setting 92
tip cover 15, 65, 69
tones, setting 100
Tools menu 178
transferring results 144
as table (CSV file) 151
for analysis 149
sources of error 155
turning off, meter 32
after a test 75, 76
turning on, meter 30
opening the memory 134
performing a test 65, 68
transferring results 144
type plate 16, 40

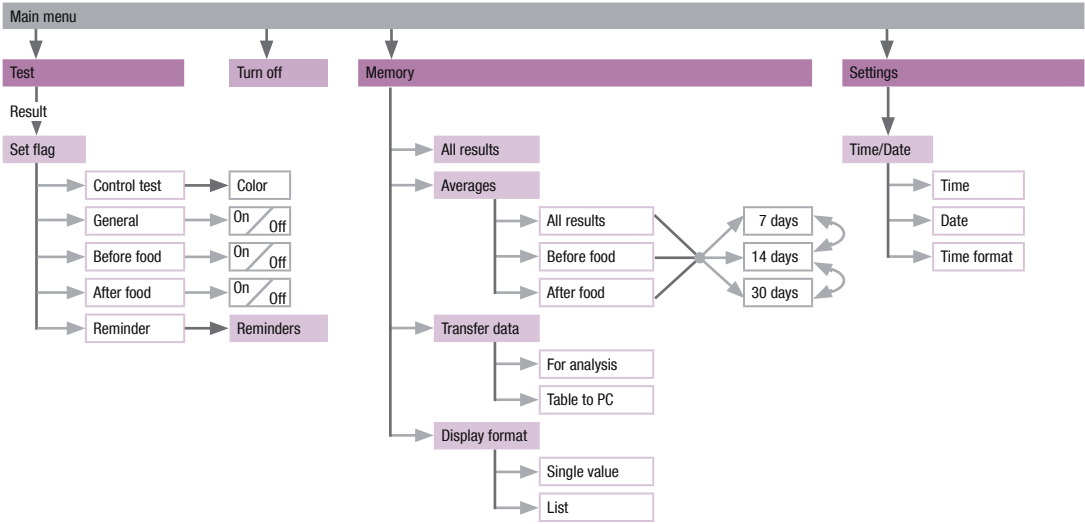
U

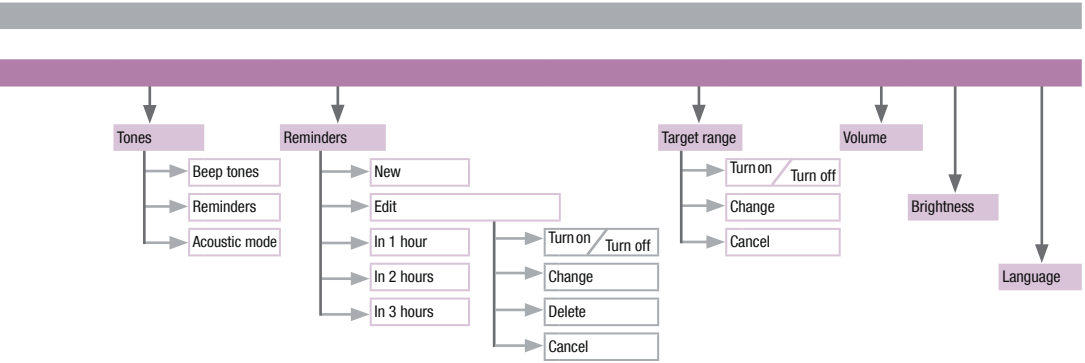
unit of measurement, result (mmol/l, mg/dl) 5, 40
use-by period, test cassette 46

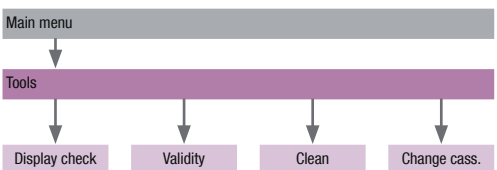
V

validity, test cassette 46, 212
displaying 181

23 Menu overview




Tones
Beep tones
Reminders
Acoustic mode
Reminders
New
Edit
In 1 hour
In 2 hours
In 3 hours
Turn on / Turn off
Change
Delete
Cancel
Target range
Turn on / Turn off
Change
Cancel
Volume
Brightness
Language


Main menu
Tools
Display check
Validity
Clean
Change cass.